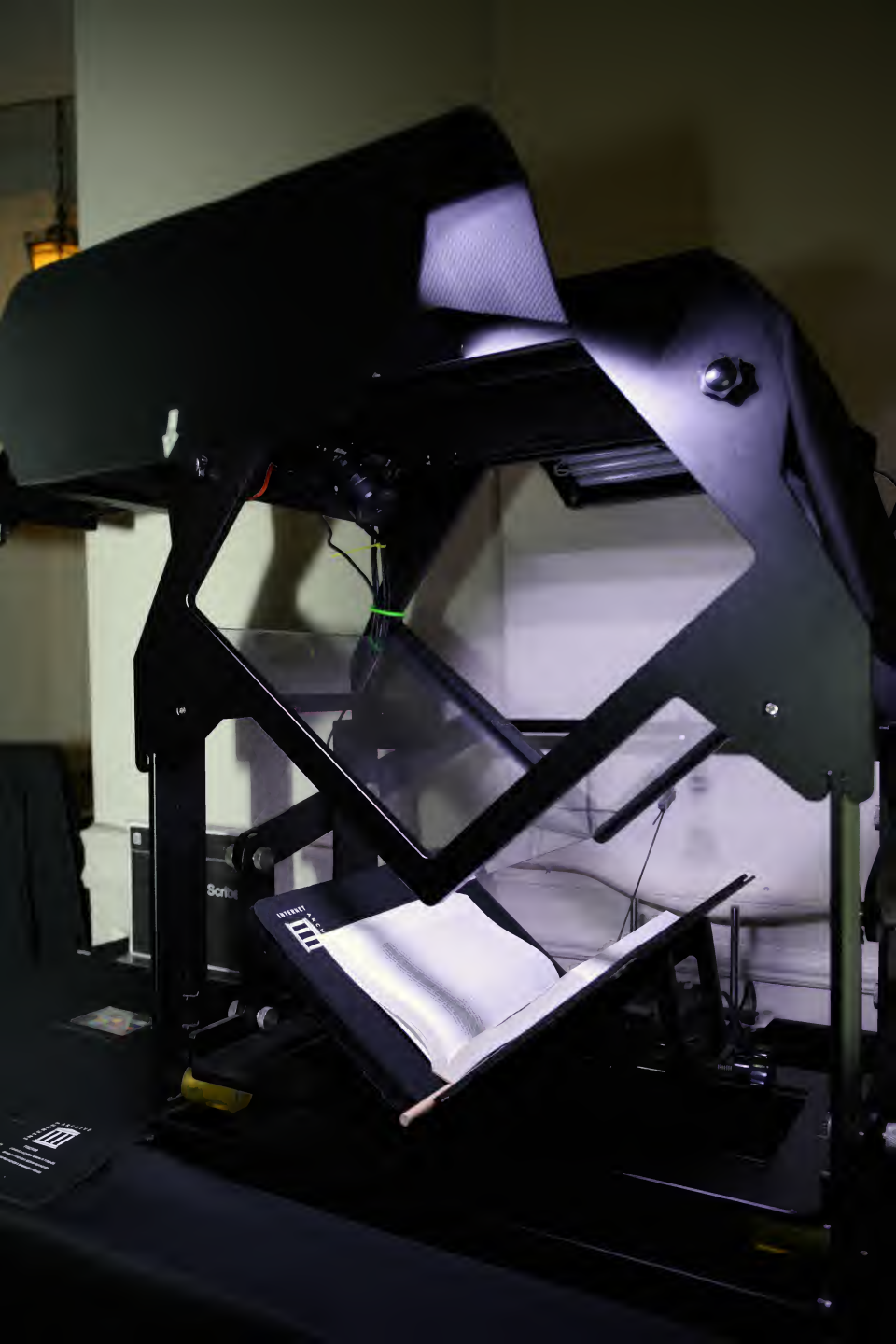
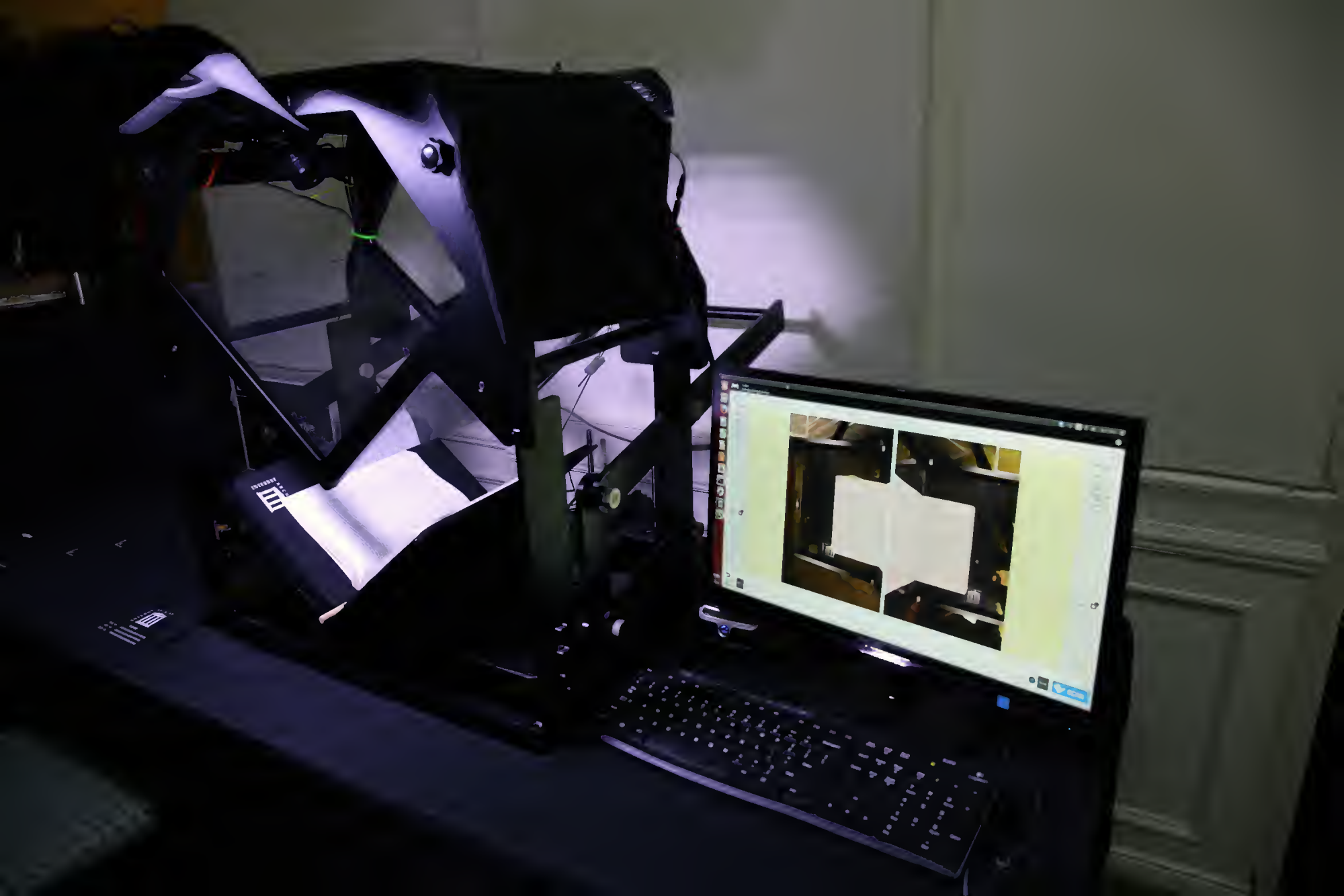


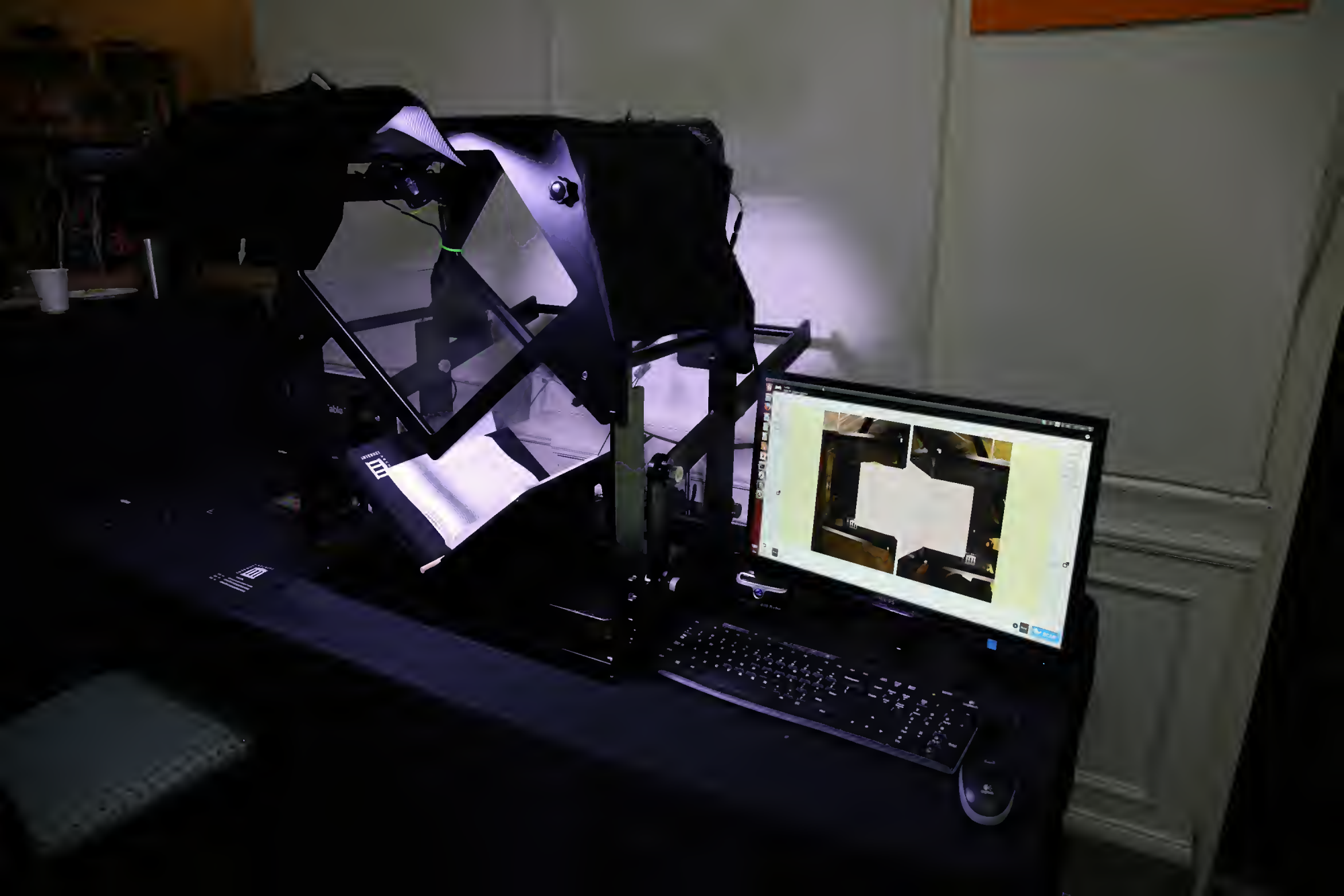
INTERNET
ARCH

Scribe
from the Internet Archive

INTERNET
ARCHIVE

INTERNET ARCHIVE
INTERNET ARCHIVE
Scribe
from the Internet Archive
Left Page
Leaf #2
Page Type
Normal
Capture Time
2.90s
Thumb Time
0.70s





XeArcade
Powered By Xgaming

XGArcade
Powered By Xgaming

INTERNET ARCHIVE
Main Line
Description Line
INTERNET ARCHIVE

I Voted
Today

ACCIA

Decentralized
Web Summit

INTER
Victor
"Victor"
We're happ
gran
Unfortunately, us
quality of the
working
Please enjoy it wit
everyone can enjoy

Tim Berners-Lee
WORLD WIDE WEB CONSORTIUM , DIRECTOR
@timberners_lee
GROUP 4
Re-
Centralized
Agree
GROUP #5
1) Content accessibility
but we are stuck
IDENTITIES

Tim Berners-Lee
WORLD WIDE WEB CONSORTIUM
#3
How To RESIST Re-Centralized
VERSION CONTROL
(a memory)
Group 4
Agree
1) Content addressable
2) HAVE FORKABLE
Governance
GROUP #5
1) Content accessibility
but we are stuck
DENTITIES

Tim Berners-Lee
WORLD WIDE WEB CONSORTI
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How To RESIST Re-Centralized
VERSION CONTROL
(a memory)
PRIVACY

161

161

CANCER
results
GROUP #5
1) Content accessibity but we are "stuck"
• IDENTITIES
• W
PROTOCOLS

GROUP #5

1) Content accessibility but we are "stuck"
   - IDENTITIES

Electron
Prostate cancer stroma: an important factor in cancer growth and progression
Abstract
accessibity
we are "stuck"

imladris
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imladris
imladris
imladris
161
603
399
GROUP #5
1) Content accessibity but we are "stuck"
• IDENTITIES

IPFS .JS
IPFS JavaScript Implementation
Description

INTERNET ARCHIVE

INTERNET ARCHIVE

INTERNET ARCHIVE

INTERNET ARCHIVE

INTERNET ARCHIVE

INTERNET ARCHIVE

INTERNET ARCHIVE

INTERNET ARCHIVE

INTERNET ARCHIVE

at&t
Annotate 16
BERLIN

LOCKING THE WEB OPEN
Decentralized Web Builder's Day
JUNE 7 | INTERNET ARCHIVE | SAN FRANCISCO, CA
www.decentralizedweb.net/builders-day
#DWebsummit

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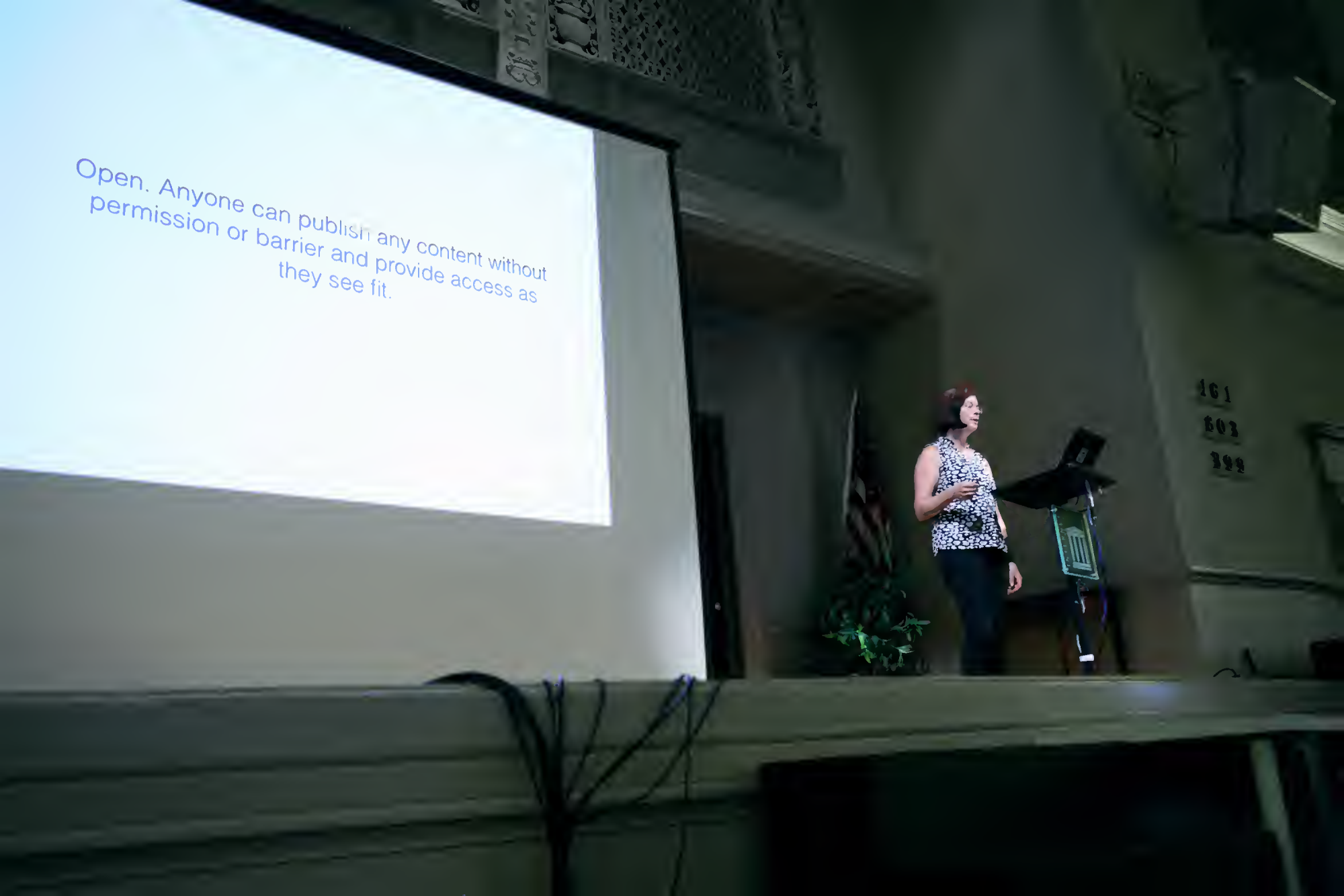
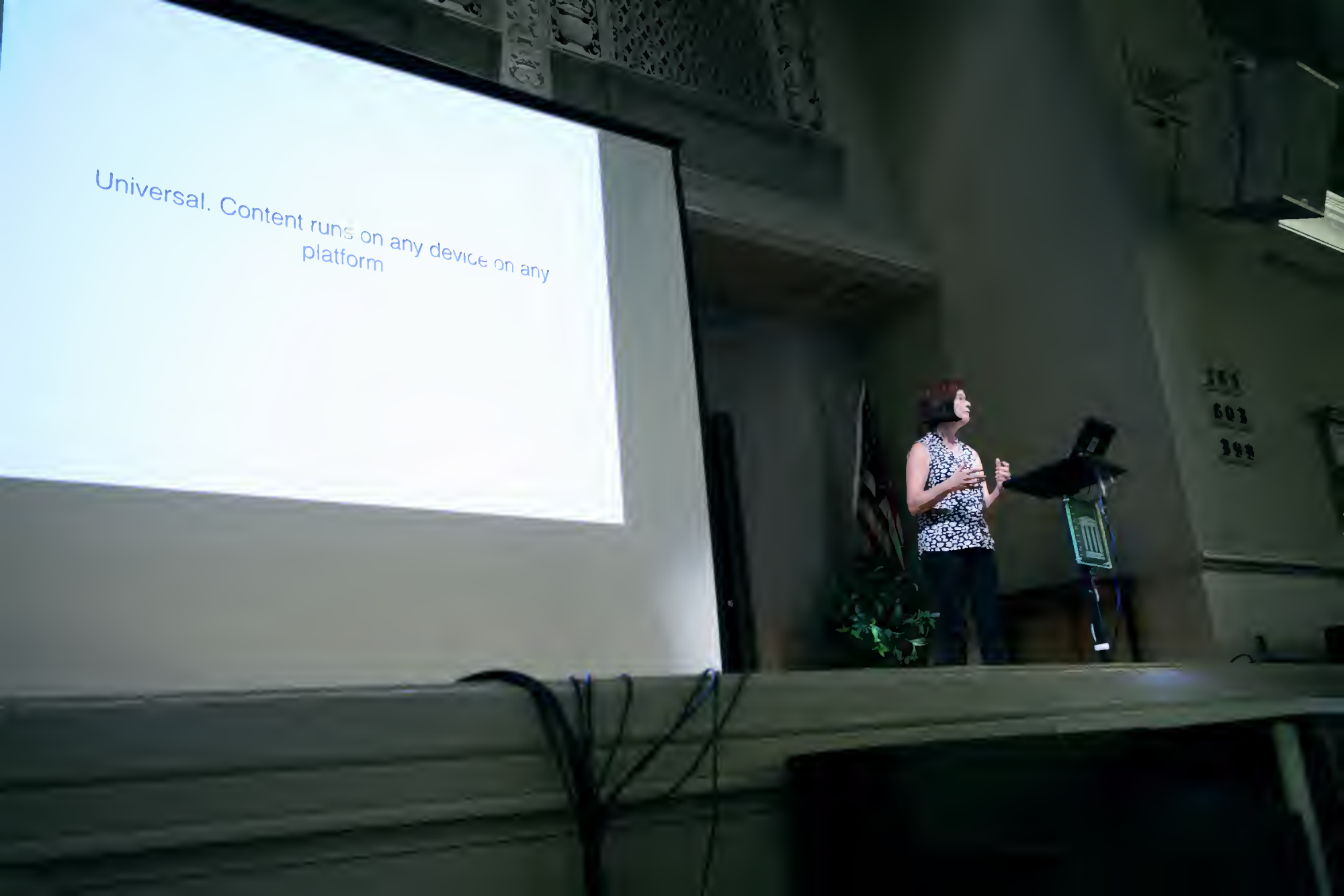

Open. Anyone can publish any content without
permission or barrier and provide access as
they see fit.

Universal. Content runs on any device on any platform.

Universal. Content runs on any device on any platform.


Universal. Content runs on any device on any platform

Universal. Content runs on any device on any platform.

Agency. User agent can choose how to
interpret content provided by a service offering.

Agency. User agent can choose how to
interpret content provided by a service offering

Agency. User agent can choose how to
interpret content provided by a service offering.

Wendy Hanamura
INTERNET ARCHIVE | DIRECTOR OF PARTNERSHIPS
@whanamura

Wendy Hanamura
INTERNET ARCHIVE | DIRECTOR OF PARTNERSHIPS
@whanamura

Wendy Hanamura
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@whanamura

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@whanamura

Wendy Hanamura
INTERNET ARCHIVE | DIRECTOR OF PARTNERSHIPS

Wendy Hanamura
INTERNET ARCHIVE | DIRECTOR OF PARTNERSHIPS

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TECH ★ ACTIVISM ★ LAW

TECH ★ ACTIVISM ★ LAW

GAME NOT OVER

blockstac

Who is Sylvia?

Who is Sylvia?

WEB OF TRUST

WEB OF TRUST

Alexa
www.alexa.com
an amazon.com company

Alexa

alexa
www.alexa.com

alexa

Alexa

yammer
alexa

Framing the Problem

3 1 4
1 5 9
2 6 5

314
159
265

3 1 4
1 5 9
2 6 5
Framing the
10:45
GAME

3 1 4
1 5 9
2 6 5
Framing the Pro

ELECTRONIC FRONTIER

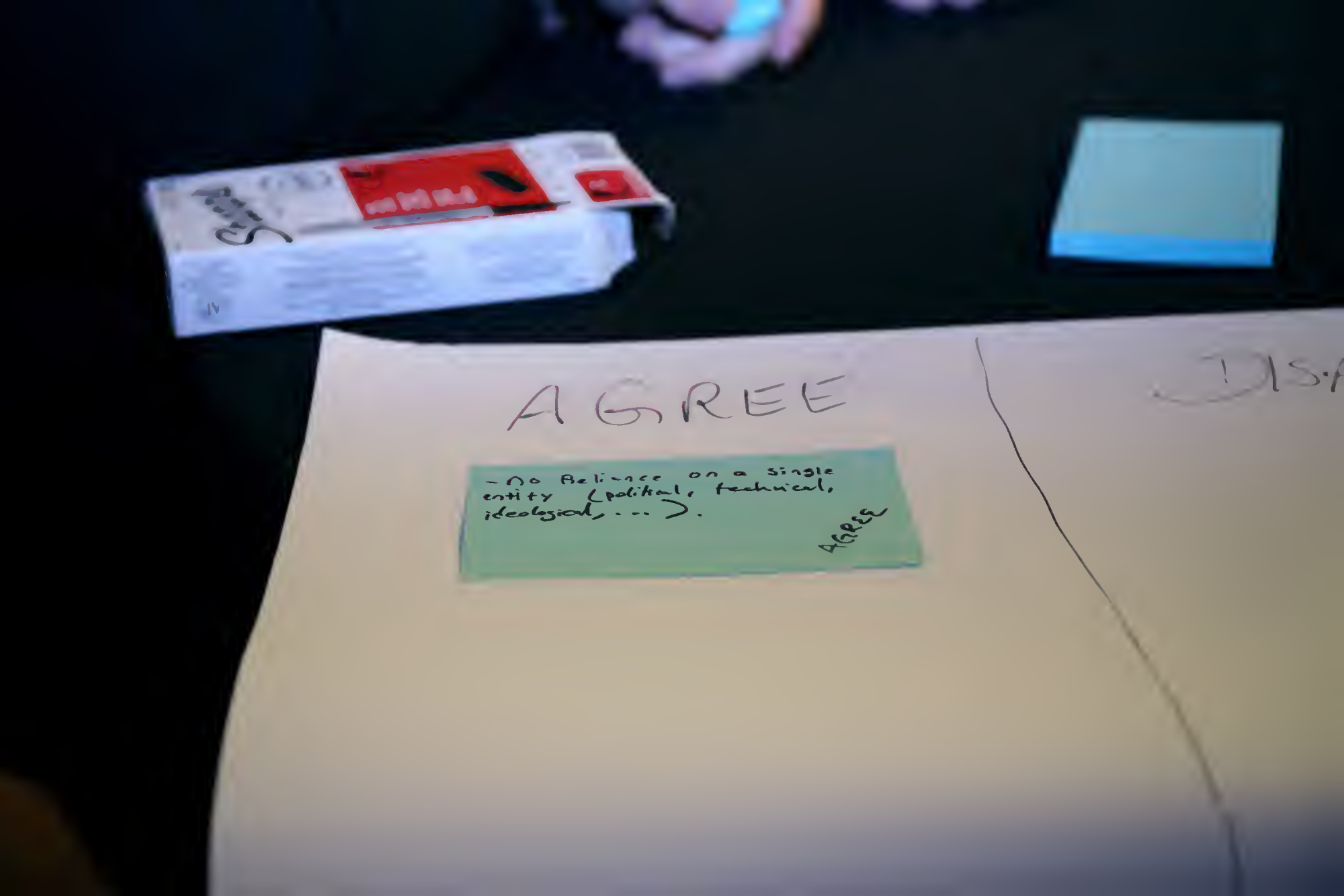
ELECTRONIC FRONTIER

EXIT
bing

bing

Redistribution of network effects
among participants of the
network.

AGREE
- No Reliance on a single entity (political, technical, ideological, ...).
AGREE

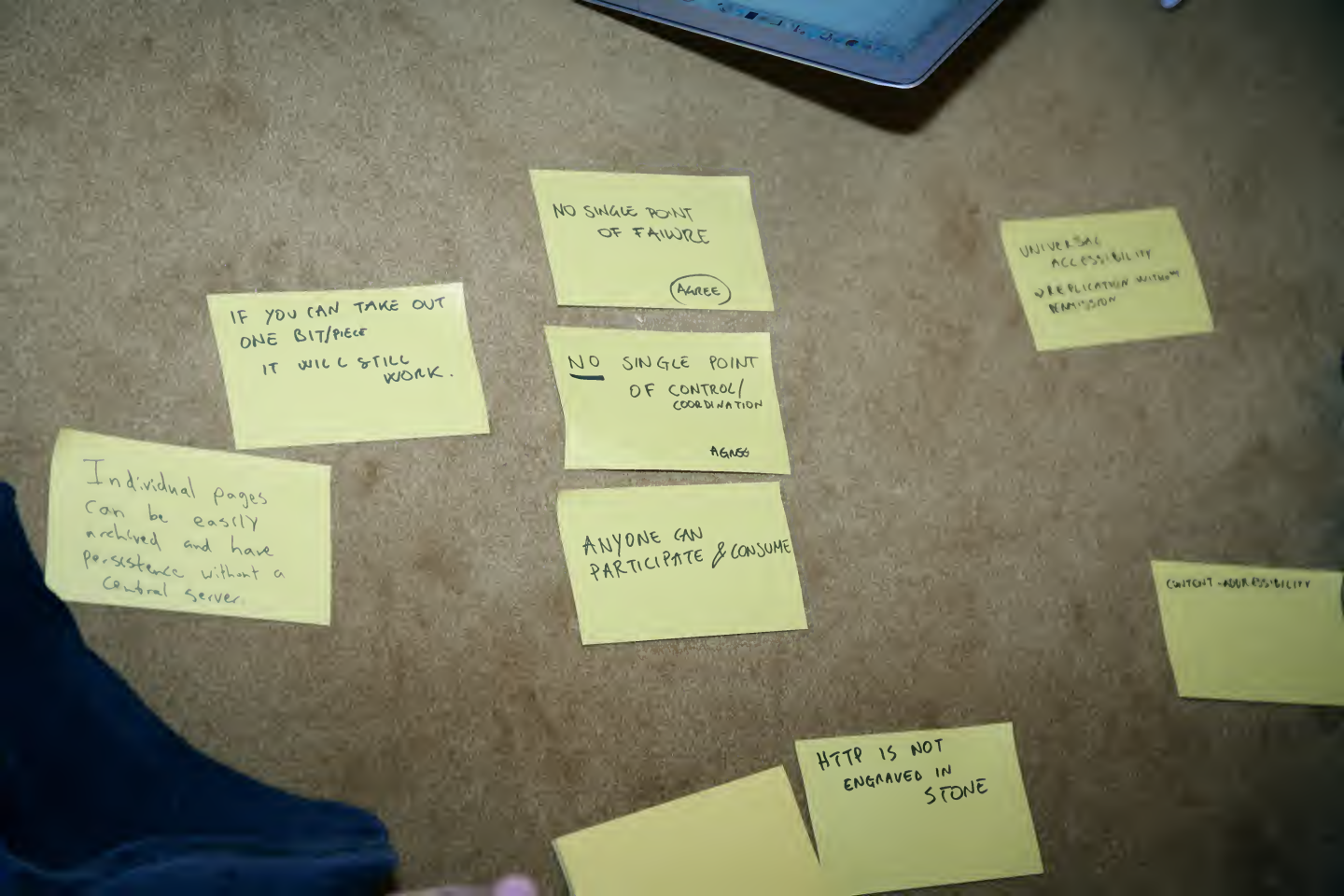

AGREE
- No Reliance on a single entity (political, technical, ideological, ...).
AGREE

Equal Access

Equal Access

DEA
BUILD

NO SINGLE POINT OF FAILURE
AGREE
NO SINGLE POINT OF CONTROL/ COORDINATION
AGREE
ANYONE CAN PARTICIPATE & CONSUME


NO SINGLE POINT OF FAILURE
AGREE
UNIVERSAL ACCESSIBILITY
IF YOU CAN TAKE OUT ONE BIT/PIECE IT WILL STILL WORK.
NO SINGLE POINT OF CONTROL/ COORDINATION
AGREE
Individual pages can be easily archived and have persistence without a central server.
ANYONE CAN PARTICIPATE & CONSUME
HTTP IS NOT ENGRAVED IN STONE

EXIT

EXIT

EXIT

EXIT

EXIT

BiBIV
SAN FRANCISCO
Silicon
MECHANICS

BiBIV
SAN FRANCISCO
safari
SILICON
MECHANICS

at&t

at&t

at&t
EXIT

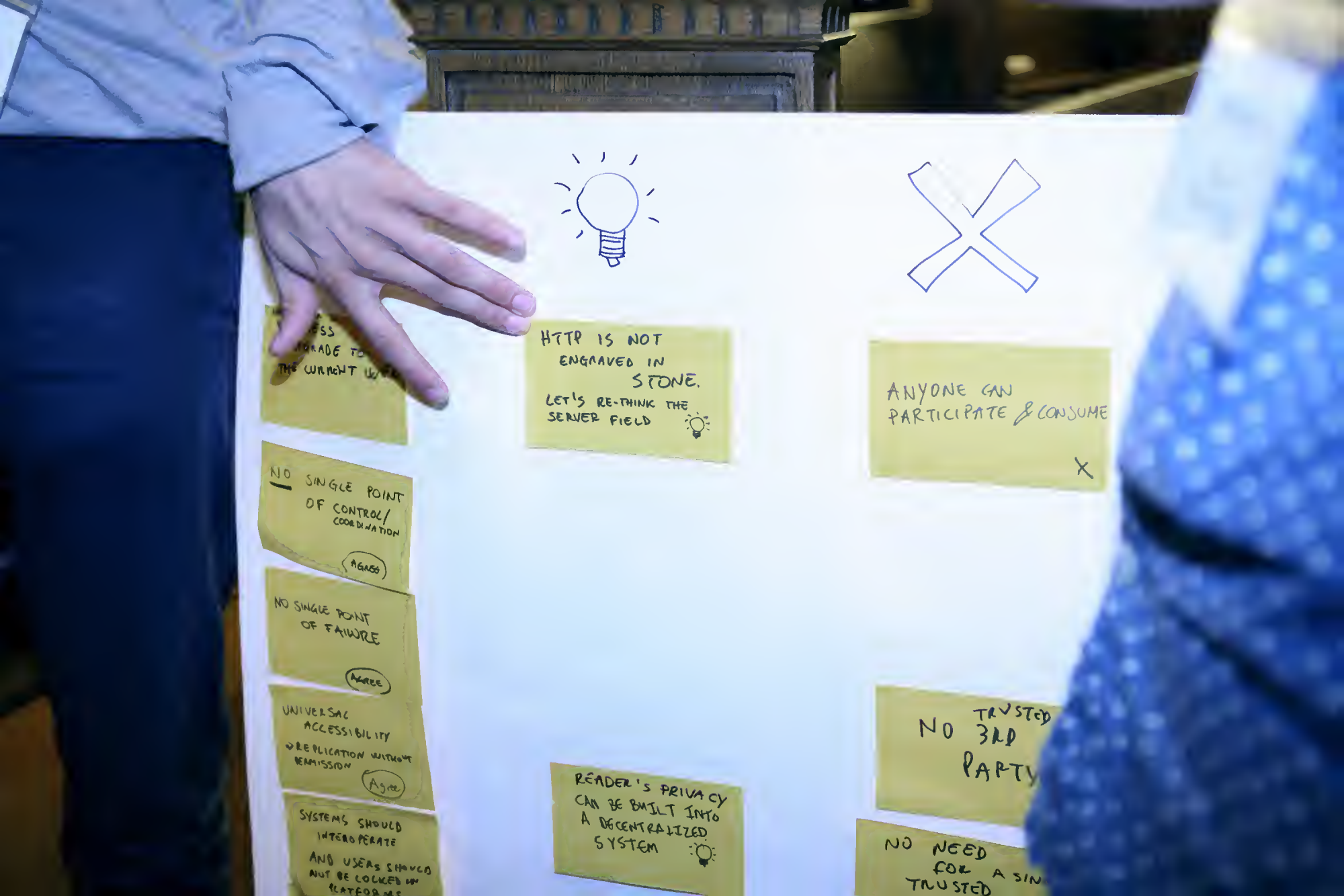
at&t

Super Sticky
Super Collant
Super Adhesivo
Easel Pad
Tableau à feuilles mobiles
Block de Hojas Reposicionables
t-it

Easel Pad
Tableau à feuilles mobiles
Block de Hojas Repositionables
Super Sticky
Super Collant
Super Adhesivo
t-it

t-it

HTTP IS NOT ENGRAVED IN STONE.
LET'S RE-THINK THE SERVER FIELD
ANYONE CAN PARTICIPATE & CONSUME
NO SINGLE POINT OF CONTROL/ COORDINATION
AGREE
NO SINGLE POINT OF FAILURE
AGREE
UNIVERSAL ACCESSIBILITY
SYSTEMS SHOULD INTEROPERATE
READER'S PRIVACY CAN BE BUILT INTO A DECENTRALIZED SYSTEM
NO TRUSTED 3RD PARTY
NO NEED


HTTP IS NOT ENGRAVED IN STONE.
LET'S RE-THINK THE SERVER FIELD
ANYONE CAN PARTICIPATE & CONSUME
NO SINGLE POINT OF CONTROL/ COORDINATION
AGREE
NO SINGLE POINT OF FAILURE
AGREE
UNIVERSAL ACCESSIBILITY
REPLICATION WITHOUT PERMISSION
Agree
SYSTEMS SHOULD INTEROPERATE
AND USERS SHOULD NOT BE LOCKED IN
READER'S PRIVACY CAN BE BUILT INTO A DECENTRALIZED SYSTEM
NO TRUSTED 3RD PARTY
NO NEED FOR A SIN
TRUSTED

ENCORE

STRONG LINK
ZERONET

ZERONET
Ensure no entity can restrict the agency of another.
Equal Access
Networks and Commons require governance to mediate concerns
Entities should / should not be accountable?
Self-Sovereign Identity.
Standards for Addressing + Content Representation
End-to-end authenticated communication w/o central authorities.

ZERONET
Equal Access
Standards for Addressing + Content Representation
Self-sovereign Identity

Ensure no entity can restrict the agency of another.
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End-to-end authenticated communication w/o central authorities.

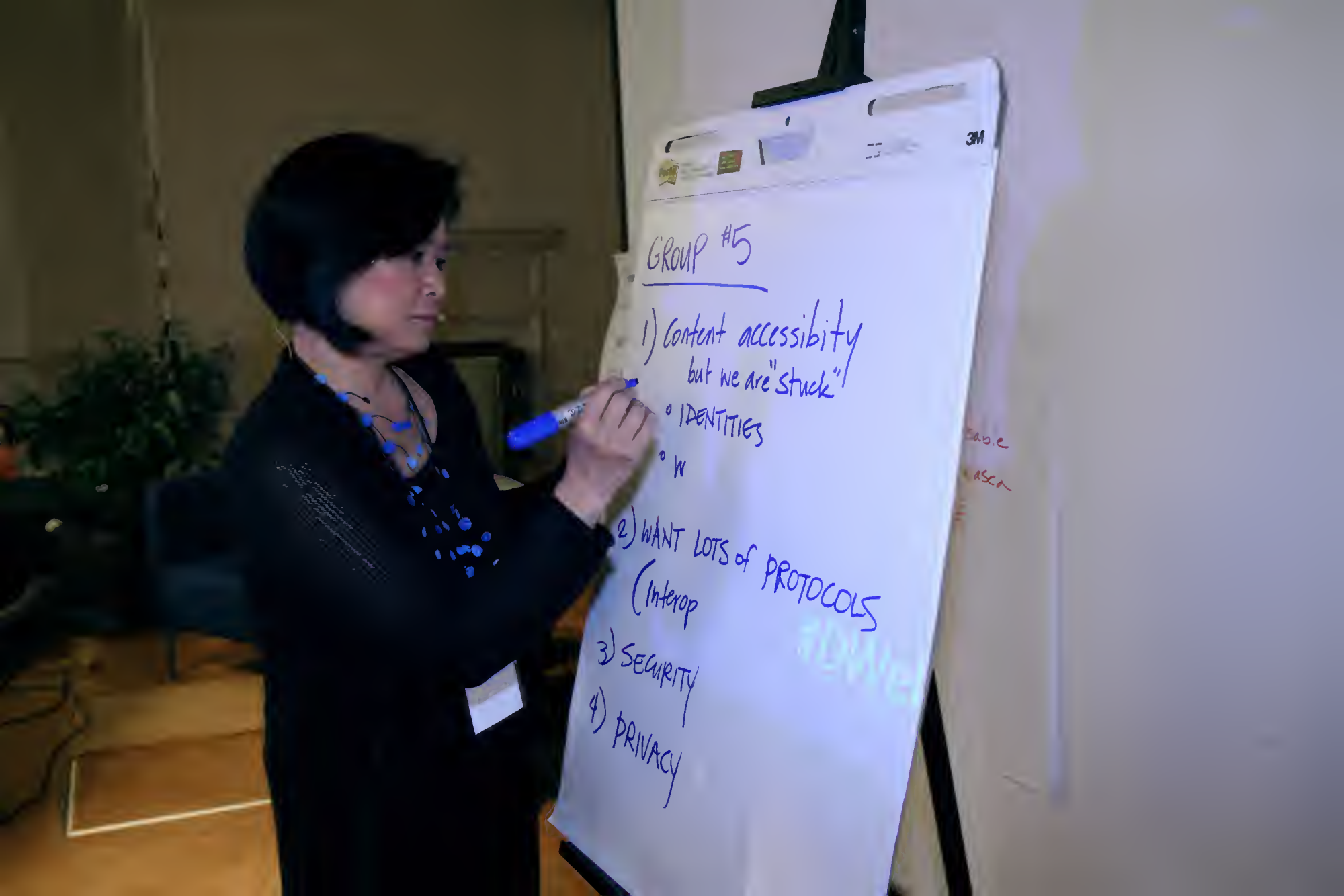
Report Back

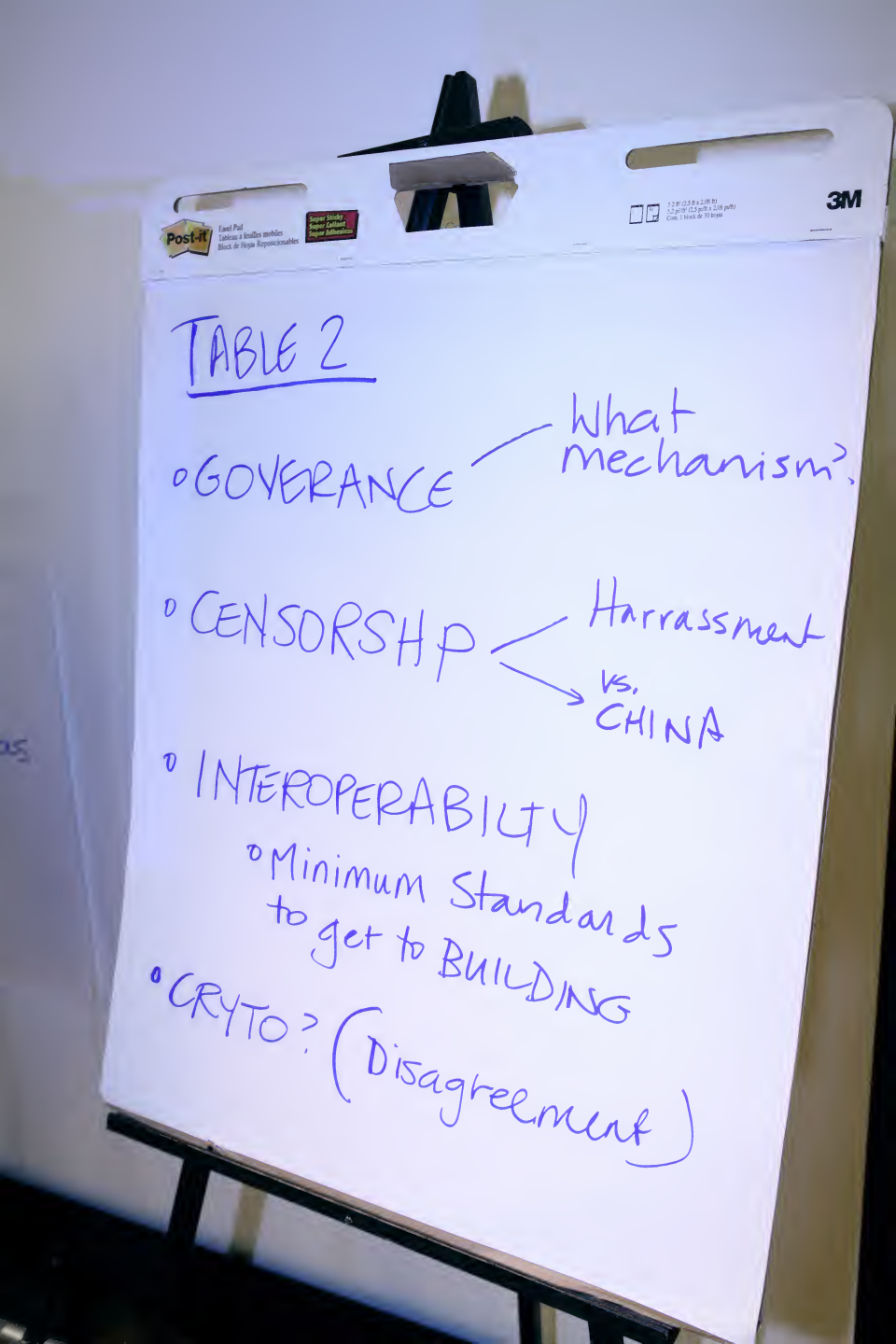
Report Back
161
803
399

COMMUNITY

IPFS

IPFS


3M
GROUP #5
1) Content accessibity
but we are "stuck"
° IDENTITIES
° W
2) WANT LOTS of PROTOCOLS
(Interop
3) SECURITY
4) PRIVACY


Post-it
3M
TABLE 2
• GOVERANCE
What mechanism?
• CENSORSHP
Harrassment
vs.
CHINA
• INTEROPERABILTY
• Minimum Standards to get to BUILDING
• CRYTO? (Disagreement)

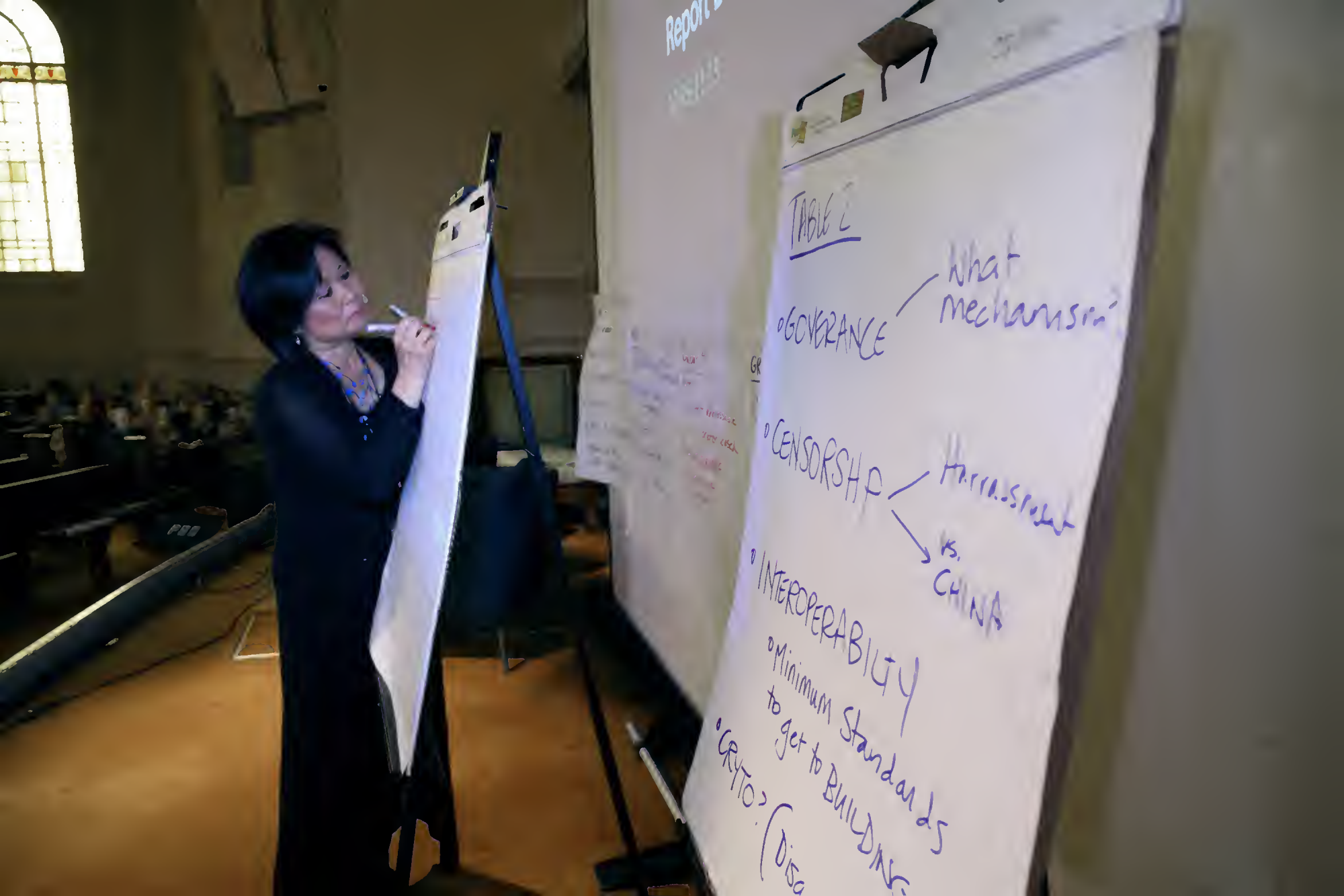


TABLE 2
GOVERNANCE
What mechanisms?
CENSORSHP
Harrassment
vs. CHINA
INTEROPERABILITY
Minimum Standards
to get to BUILDING
CRYPTO

Report Back
3M
Track C
GOVERANCE
What mechanism?
CENSORSHP
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TABLE 2
GOVERANCE
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CRYTO?
GROUP #5

TABLE 2
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What mechanis
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CRYTO? (Disagreem
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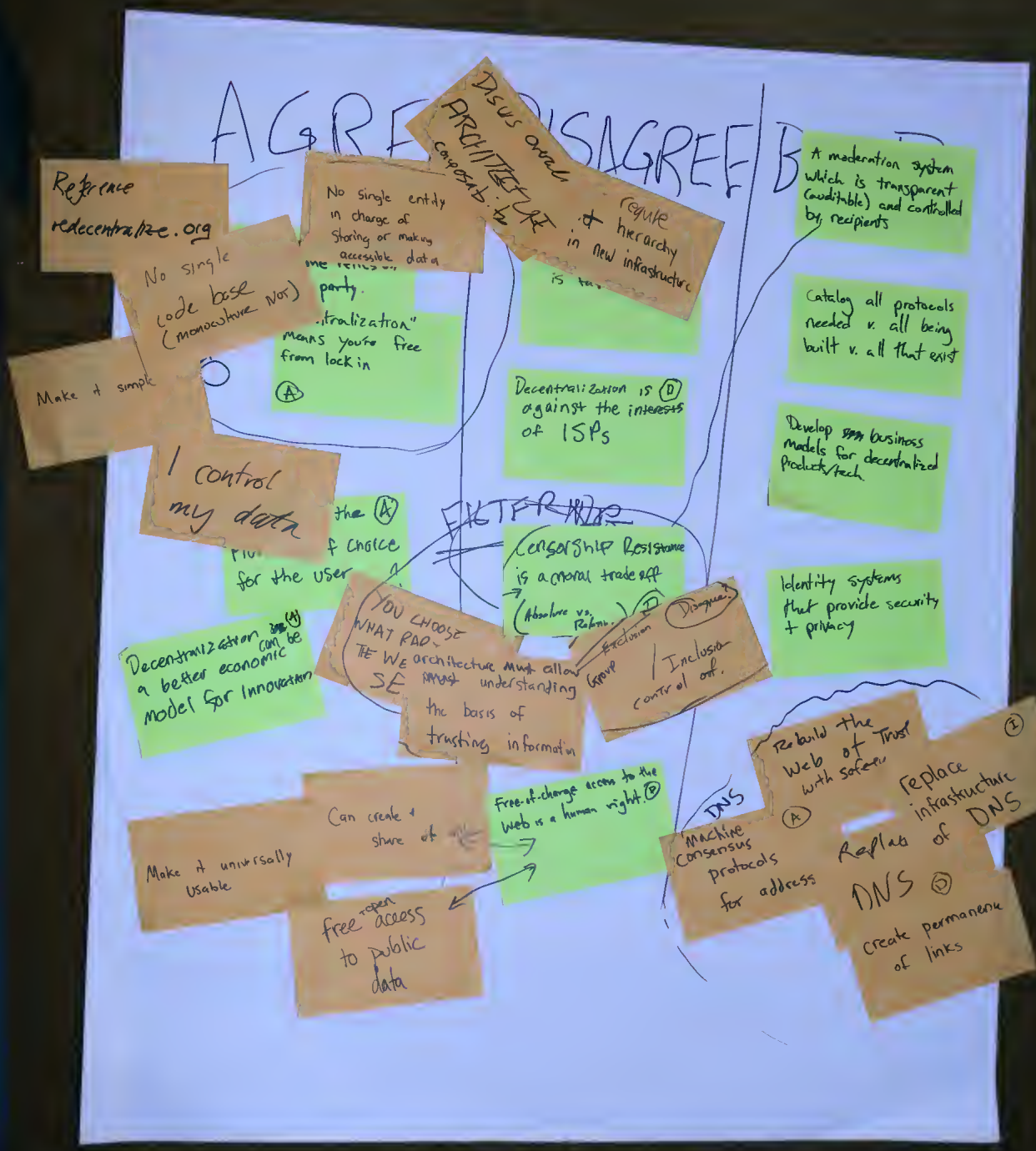
but we are "stuck"
IDENTITIES
W
2) WANT LOTS of PROTOCOLS
(Interop
3) SECURITY
4) PRIVACY
Group 4
Agree
1) Content addressable
vs location based
2 HARE FORKABLE
1 Governance

AGREE DISAGREE
Reference
redecentralize.org
No single code base (monoculture NOT)
Make it simple
I control my data
No single entity in charge of storing or making accessible data
party.
"...tralization" means you're free from lock in
Decentralization is against the interests of ISPs
Discuss overall ARCHITECTURE composable
require hierarchy in new infrastructure
A moderation system which is transparent (auditable) and controlled by recipients
Catalog all protocols needed v. all being built v. all that exist
Develop business models for decentralized products/tech
Identity systems that provide security + privacy
the
f choice
for the user
Decentralization can be a better economic model for innovation
FILTERING
Censorship Resistance is a moral tradeoff
(Absolute vs. Reform...)
YOU CHOOSE WHAT PART THE WE SE
architecture must allow understanding the basis of trusting information
Exclusion
Disagree
Group
Inclusion control of.
Can create + share of wi...
Make it universally usable
Free-of-charge access to the web is a human right
free open access to public data
DNS
Machine consensus protocols for address
Rebuild the Web of Trust with safeguards
replace infrastructure of DNS
Replace DNS
create permanence of links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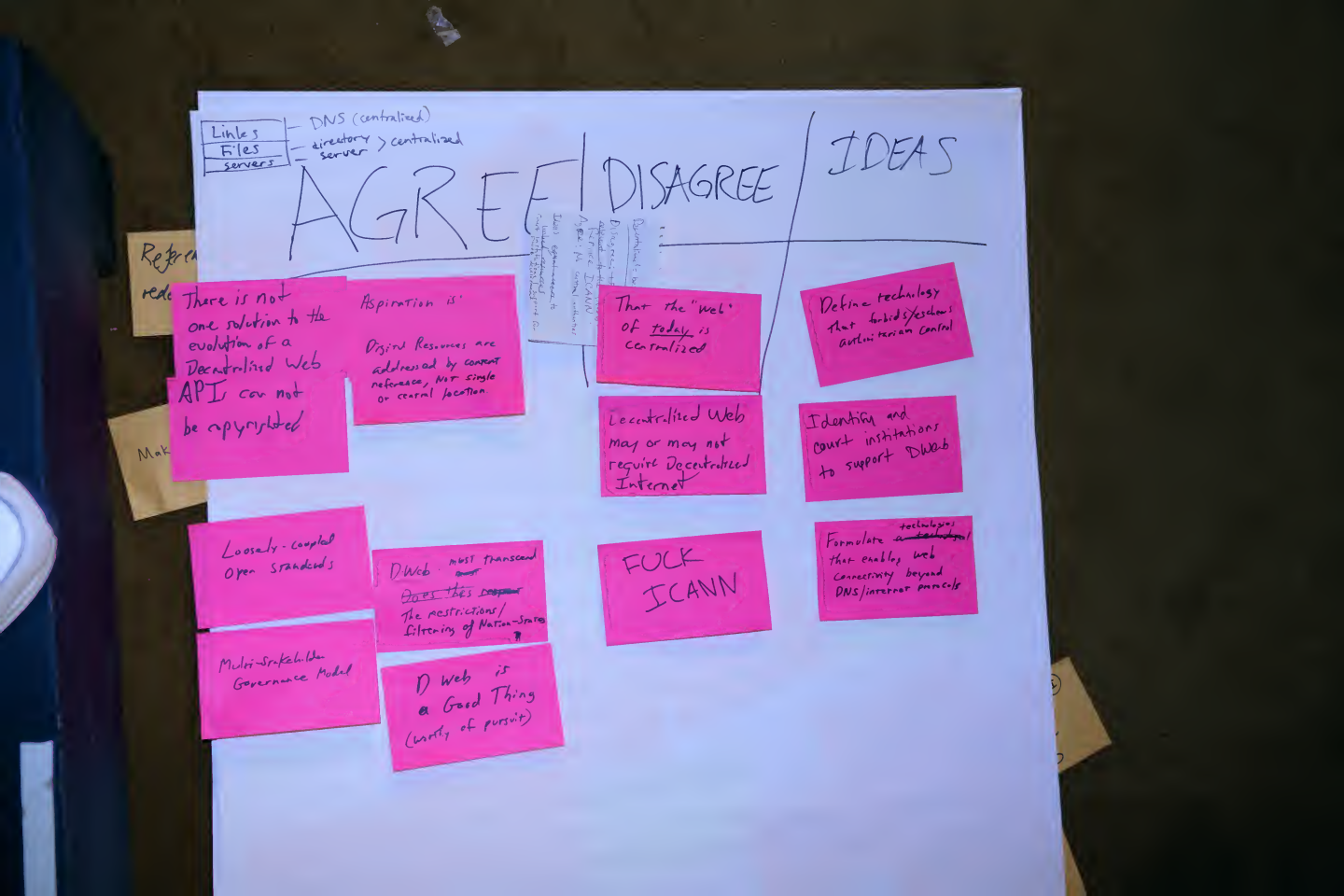
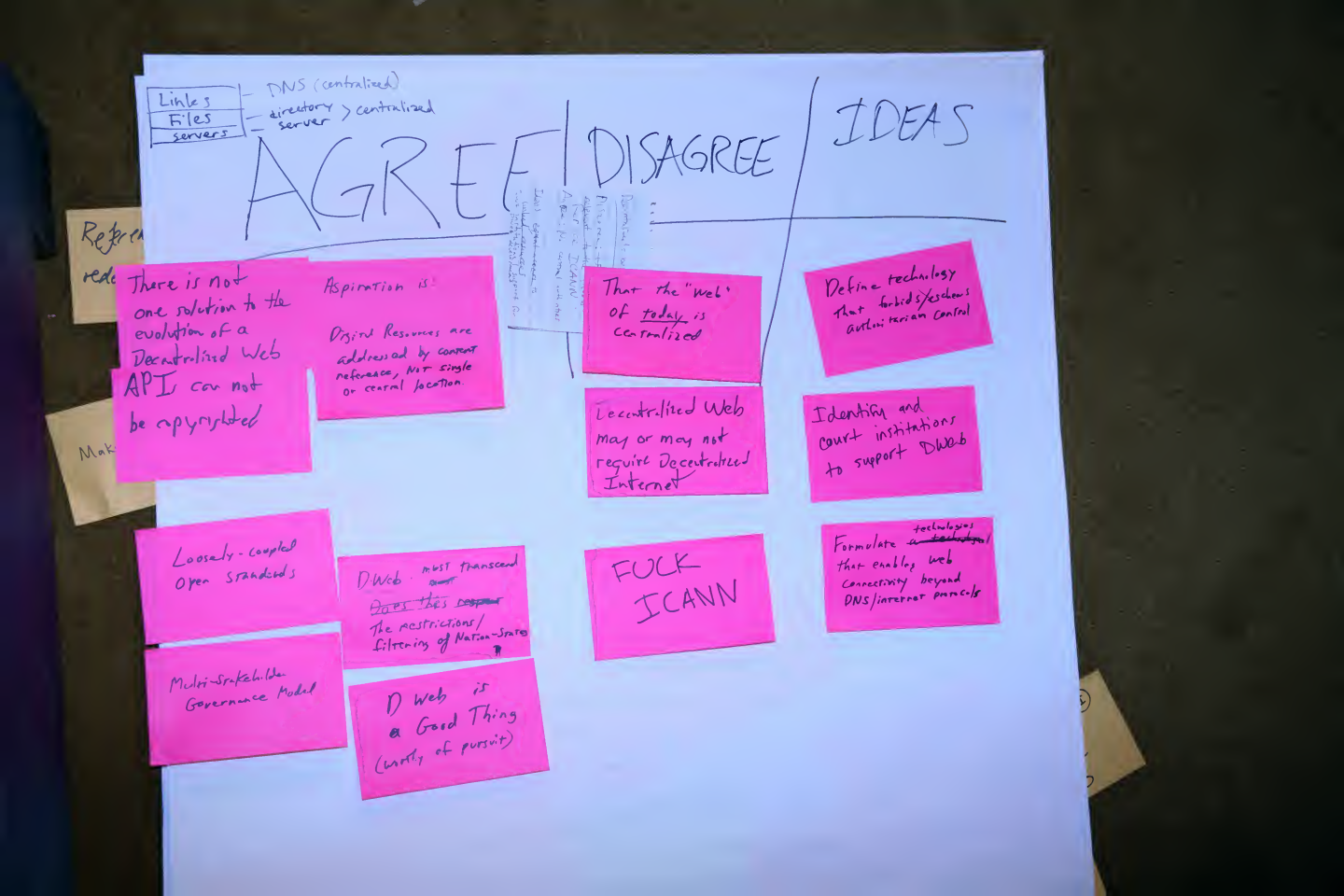

Links — DNS (centralized)
Files — directory server > centralized
AGREE
DISAGREE
IDEAS
There is not one solution to the evolution of a Decentralized Web
Aspiration is:
Digital Resources are addressed by content references, NOT single or central location
That the "Web" of today is centralized
Define technology that forbids/restricts authoritarian control
API's can not be copyrighted
Decentralized Web may or may not require Decentralized Internet
Identify and court institutions to support DWeb
Loosely-coupled Open Standards
DWeb must transcend
The restrictions/ filtering of Nation-States
FUCK ICANN
Formulate technologies that enable web connectivity beyond DNS/internet protocols
Multi-Stakeholder Governance Model
D Web is a Good Thing
(worthy of pursuit)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## AGREE

Different Rule Sets

p2p
Communication between nodes

Mechanisms for steering by users

INTEROPERABILITY (adversarial)

MULTIPLE INTEGRATIONS = INTEROPERABILITY

Choice of stack + interoperability > one best stack

FAILS GRACEFULLY
eg – how things are built is controlled by many

"HORSES for COURSES"

## DISAGREE

DECENTRALIZED better than Distributed

OPEN SOURCE

DERIVES AUTHORITY FROM CONSENT OF THE GOVERNED

NOT CONTROLLED BY ANY ONE LEGAL ENTITY

## IDEAS

Build a GITHUB fr governance
fork the social contract

Work on minimal building blocks, don't try to agree on other things *

frameworks that make it easy to build decentralized apps

SUMMIT in EUROPE

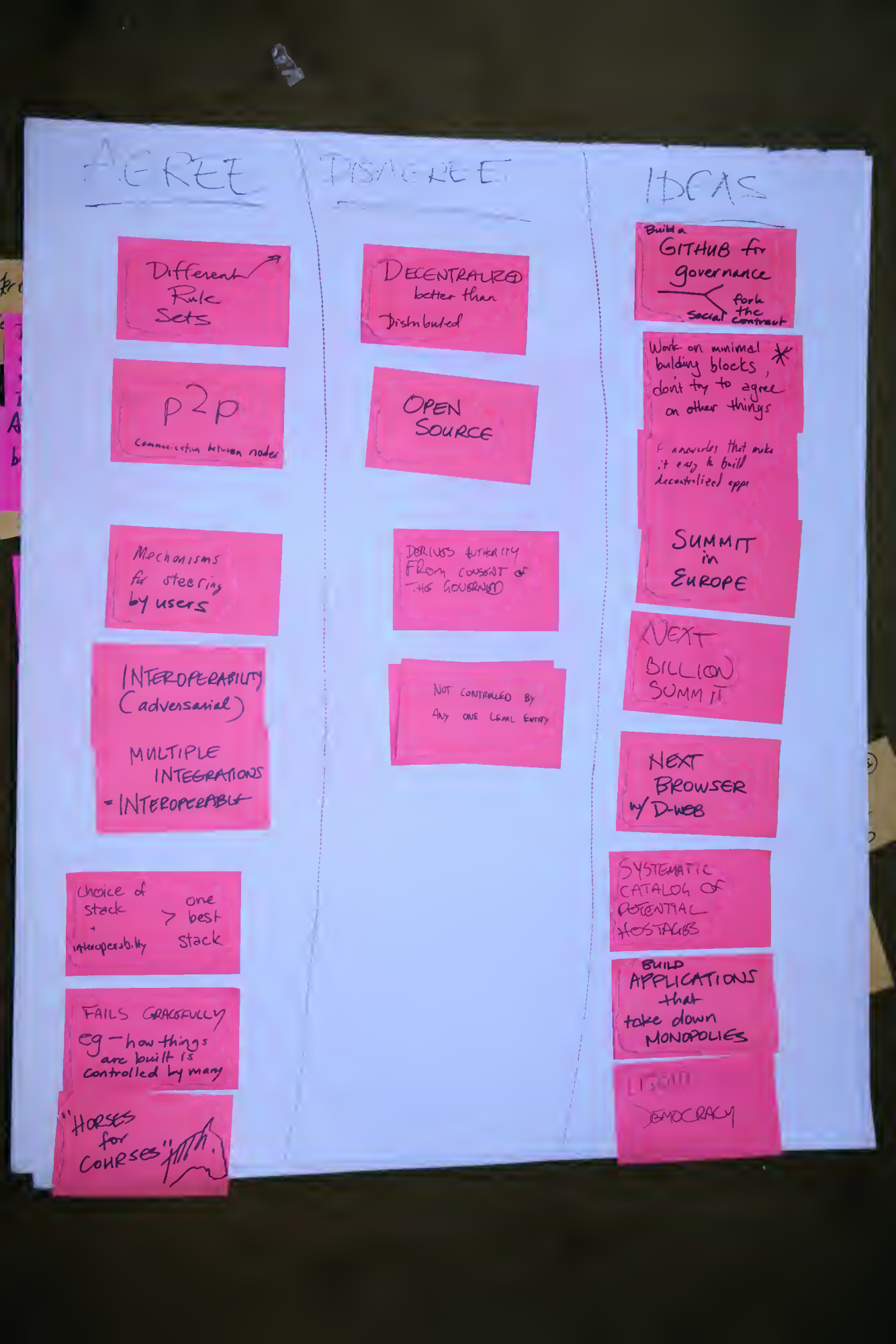
NEXT BILLION SUMMIT

NEXT BROWSER w/ D-WEB

SYSTEMATIC CATALOG OF POTENTIAL HOSTAGES

BUILD APPLICATIONS that take down MONOPOLIES

[illegible]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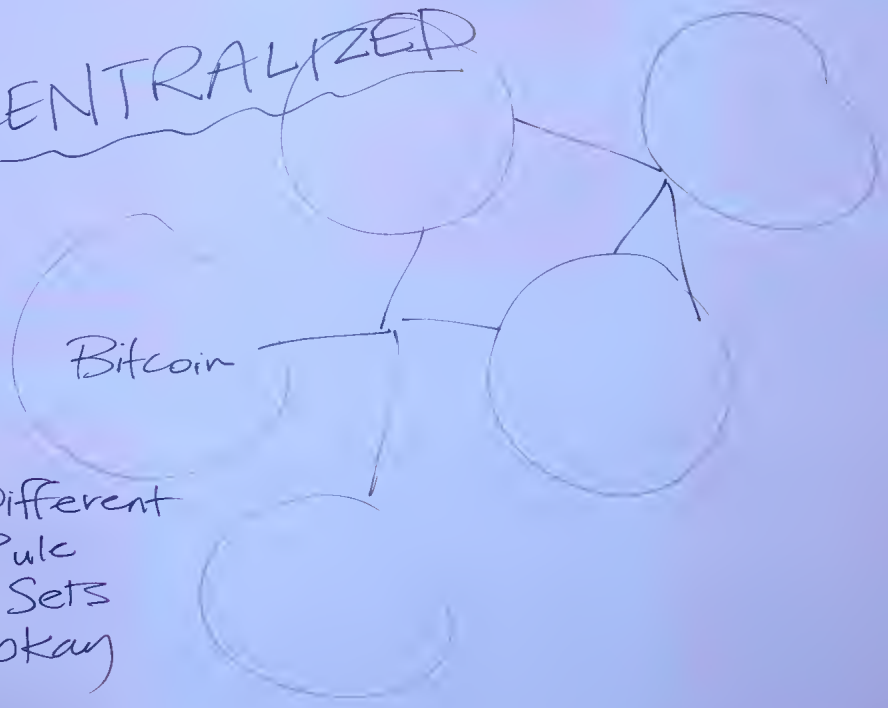
NEXT BROWSER w/ D-WEB
SYSTEMATIC CATALOG OF POTENTIAL HOSTAGES
BUILD APPLICATIONS that take down MONOPOLIES
DEMOCRACY

# DISTRIBUTED

gmail
Amazon Cloud

= one rule set

# DECENTRALIZED




= Different
Rule
Sets
okay

COURSES

DEMOCRACY

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gmail
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= one rule set

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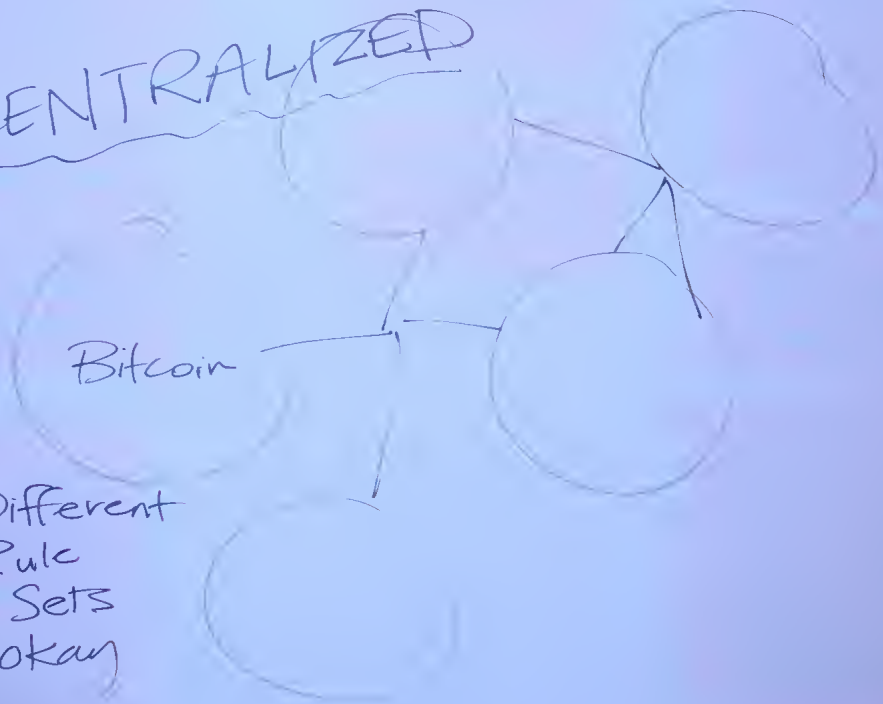



= Different
Rule
Sets
okay

COURSES

DEMOCRACY

# Agree

- I'

Agree:
- Decentralization is a means, not an end
- return control to people, dec. of power
-

- Universal access
  - practical
  - can be "locked out"
- User-centric
  - competing user needs

- There should ... to guarantee availability & access (from tech. perspective)
- Version control baked into protocol
- persistent source authentication
- Trust-model aware technologies.

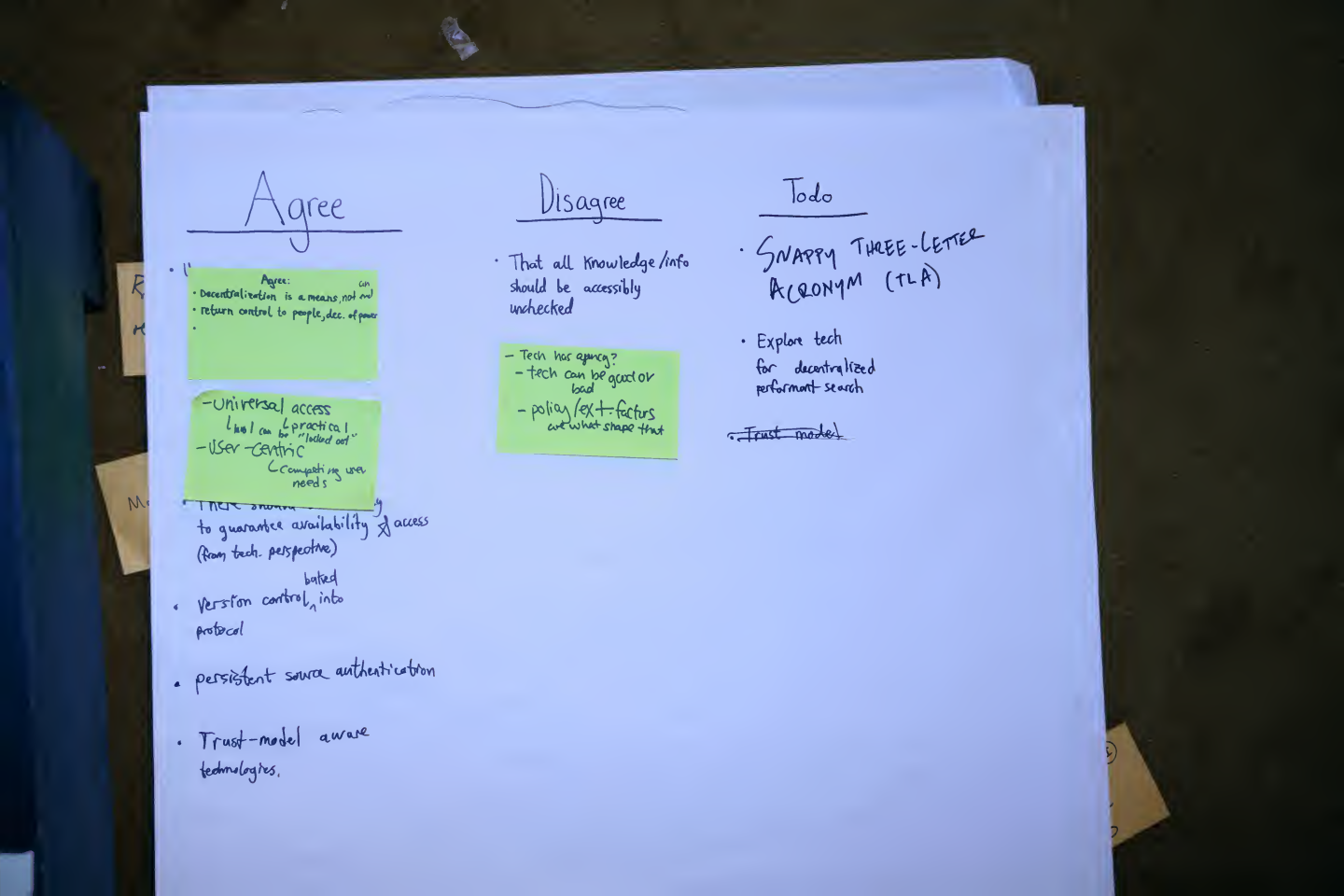
# Disagree

- That all knowledge/info should be accessibly unchecked

- Tech has agency?
  - tech can be good or bad
  - policy/ext. factors are what shape that

# Todo

- SNAPPY THREE-LETTER ACRONYM (TLA)
- Explore tech for decentralized performant search
- ~~Trust model~~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That all knowledge/info
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cut what shape that
Todo
SNAPPY THREE-LETTER
ACRONYM (TLA)
Explore tech
for decentralized
performant search
~~Trust model~~

# What it is

# What it's not

# What can we do together?

- CompuServe
- Built in central points

Disagree
- governance: tech or culture?
- accessibility of risky content

Illustrate how decentralization is a better value proposition than centralization

Important
- ~~about~~ how to prevent re-centralization

Decentralization

Build a public interest demonstration to prove the value to the world

Decentralization
Giving ppl more power and less dependence on central services or hosting provider

Agree
- version control baked in, WebDAV ~~support~~
- surface decentralization in UI

-IS-
RESILIANT
REDUNDENT
SECURE
-PUSH-
"OPEN" SOURCE CODE AVAILABLE FOR EVERYONE

# What it is | What it's not | What can we do together?

- CompuServe
- Built-in control points

**Disagree**
- governance: tech or culture?
- accessibility of risky content

**Important**
- ~~avoid~~ how to prevent re-centralization

Decentralization
- Redistribution of network effects among participants of the network.
- ~~Open identity (small by [illegible])~~

Decentralization
Giving ppl more power and less dependent on central services or hosting provider

- [illegible] / White Web
- no central authority of any layer - from content to ppl to protocols to infrastructure
- permissionless online activity by humans

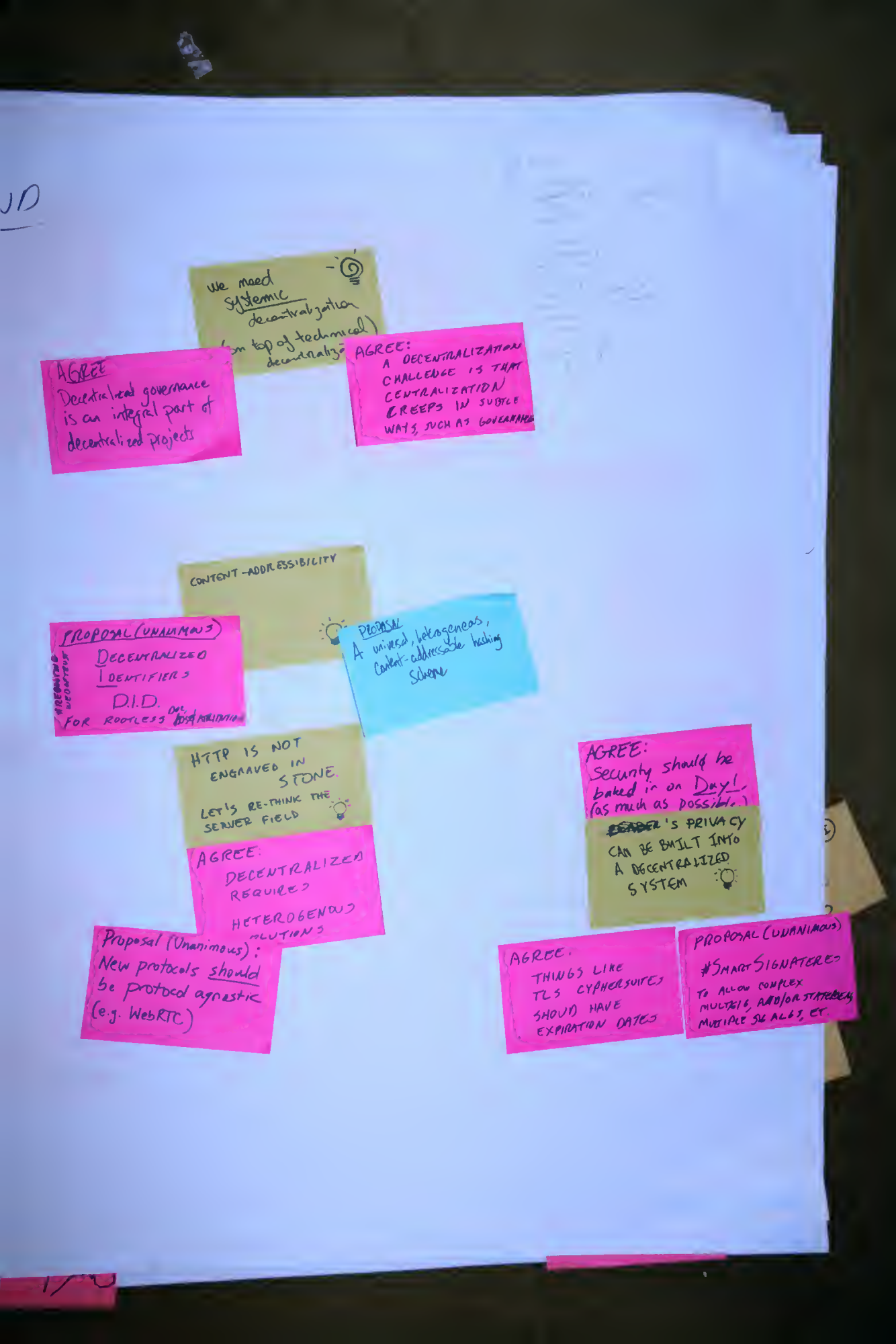
-IS-
RESILIANT
REDUNDENT
SECURE
-PUM-
"OPEN" SOURCE
CODE A VALI FOR INSPECTS

Decentralization

Illustrate how decentralization is a better value proposition than centralization

Build a public interest demonstration to prove the value to the world

**Agree**
- version control baked in, webDAV
- surface decentralization in VI


We need systemic decentralization
AGREE
Decentralized governance is an integral part of decentralized projects
AGREE:
A DECENTRALIZATION CHALLENGE IS THAT CENTRALIZATION CREEPS IN SUBTLE WAYS, SUCH AS GOVERNANCE
CONTENT-ADDRESSIBILITY
PROPOSAL (UNANIMOUS)
DECENTRALIZED IDENTIFIERS
D.I.D.
FOR ROOTLESS
PROPOSAL
A universal, heterogeneous, content-addressable hashing scheme
HTTP IS NOT ENGRAVED IN STONE.
LET'S RE-THINK THE SERVER FIELD
AGREE:
DECENTRALIZED REQUIRES HETEROGENOUS SOLUTIONS
Proposal (Unanimous):
New protocols should be protocol agnostic (e.g. WebRTC)
AGREE:
Security should be baked in on Day 1. (as much as possible.)
'S PRIVACY CAN BE BUILT INTO A DECENTRALIZED SYSTEM
AGREE:
THINGS LIKE TLS CYPHERSUITES SHOULD HAVE EXPIRATION DATES
PROPOSAL (UNANIMOUS)
#SMARTSIGNATURES
TO ALLOW COMPLEX MULTISIG AND/OR STATEFUL MULTIPLE SIG ALGS, ET.

UD

We need systemic decentralization (on top of technical decentralization)

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HOPING FOR A
SEAMLESS
UPGRADE TO
THE CURRENT WEB

NO SINGLE POINT
OF CONTROL/
COORDINATION

AGREE

NO SINGLE POINT
OF FAILURE

AGREE

UNIVERSAL
ACCESSIBILITY
=> REPLICATION WITHOUT
PERMISSION

Agree

SYSTEMS SHOULD
INTEROPERATE
AND USERS SHOULD
NOT BE LOCKED IN
PLATFORMS
=> PORTABILITY

Agree

IF YOU CAN TAKE OUT
ONE BIT/PIECE
IT WILL STILL
WORK.

Agree

"PLAY UP ... ARE IN"
NO BARRIERS
TO ENTRY

Agree

PERMISSIONLESS
INTEROPERABILITY

Agree

How is decentralization a
value proposition then

ANYONE CAN
PARTICIPATE & CONSUME

X

TRUSTED
NO 3RD
PARTY

X

NO NEED
FOR A SINGLE
TRUSTED
3RD PARTIES

X

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X

NO TRUSTED 3RD PARTY

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NO NEED FOR A SINGLE TRUSTED 3RD PARTIES

X

AGREE

DISAGREE

IDEAS

Disagree:
Publication should
be permanent

Disagree

Protection against AIs/DAOs of all the resources

Built-in protection against censorship

Disagree

Protection against APIs / DADs of all the resources

Built-in protecting against censorship

# Agree

agree:
The system needs a way to deal with bad actors.

The community should have a way to block speech to prevent harrassment/abuse if it's opt-in

Should be robust against censorship "from the outside"

should be resilient to dragnet surveillance (GPA)

Decentralised Internet, not "Web"!!

Should protect metadata

# Disagree

reputation can work at large scale

disagree:
identity should be global

disagree:
end-to-end ~~hurts~~ enables bulk surveillance

disagree:
everything should be encrypted

Does decentralised mean no central authority?

# Propose

reputation system
— decentralised
— morally relative to a community

identity system
scalable
multiple personas
protocol agnostic

Universal base income
decouple creative output from financial security

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# Agree

content
Adressable
STANDardized

Distributed not decentralized

peer-to-peer

Speak common language/ avoid reinventing wheel (ie standards)

Trust models, authority — personal data

Self-defining authority

mutability enforced by an individual's private key

Individual control of where data rests and used

Physical

Work with bad [illegible] (low bandwidth [illegible])

Biz sustainability

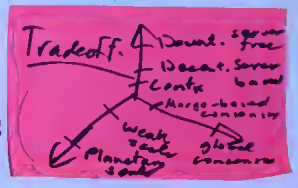
Protection against re-centralization

ANYONE [illegible]

PART [illegible]

USER EXPERIENCE

Ask
Centralized — One owner of controls
↓
server-based decentralized (super-peer p2p)
↓
Server-free decent. (p2p)
No single entity owns or controls



Tradeoff

Tradeoff.
Decent. server free
Decent. Server based
Centr.
Merge-based consensus
weak scale
global consensus
Planetary scale

Consensus

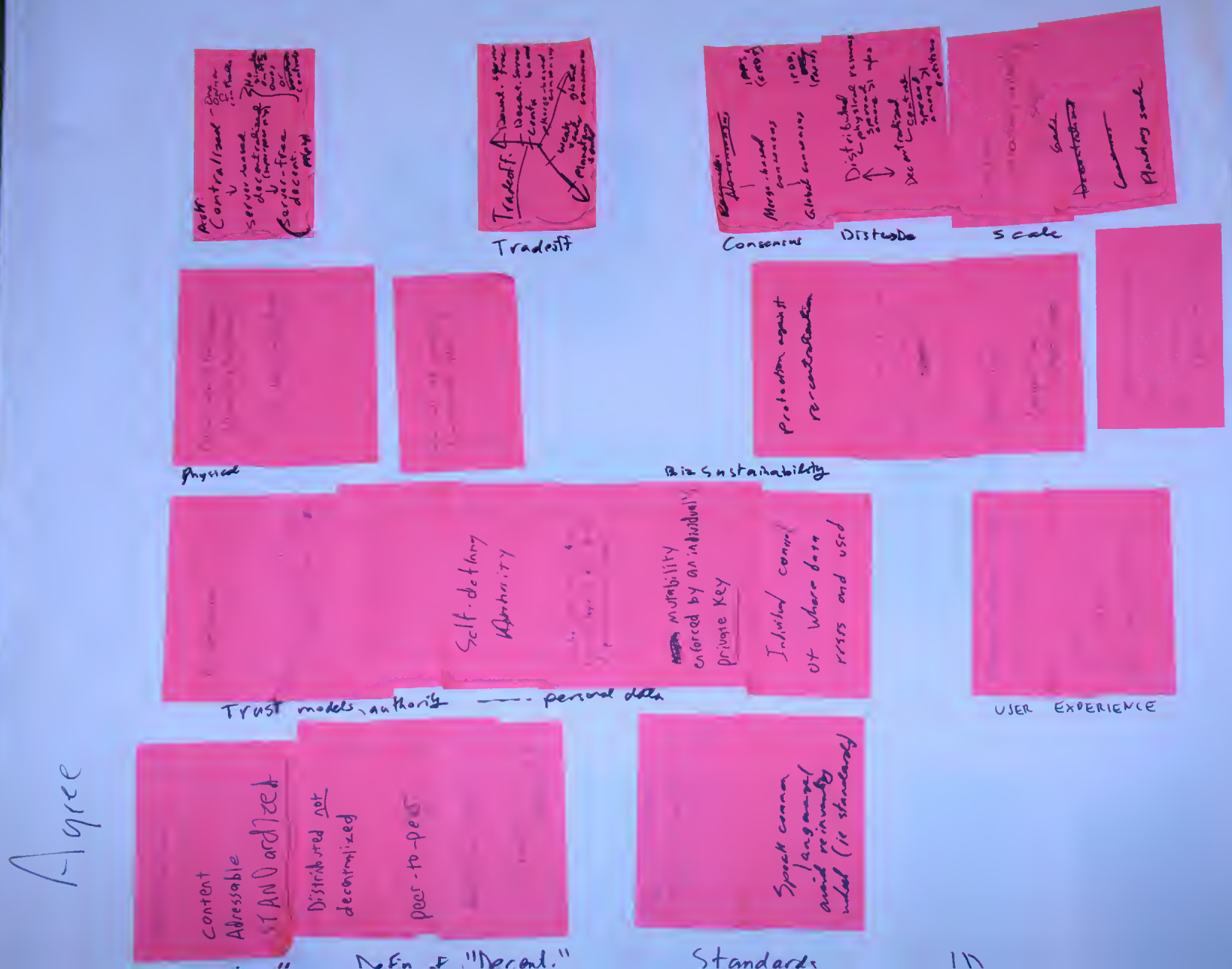
~~Reconstr. No consensus~~
Merge-based consensus (IPFS, CRDT)
Global consensus (IPDB, (Paxos))

Distribute

Distributed
↳ physical resources spread among >1 mfrs
↕
Decentralized
↳ control spread among >1 entities

Scale

RESOURCES [illegible]
SAFE
Gaps
~~Decentralized~~
~~Consensus~~
Planetary scale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USER EXPERIENCE
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Distributed not decentralized
peer-to-peer
Speak common language/ avoid reinventing wheel (ie standards)
Defn of "Decent."
Standards
ID

# AGREE

- No Reliance on a single entity (political, technical, ideological, ...).

AGREE

- Equal Access to commons, network, information, resources.

Agree.

# DISAGREE

Ensure no entity can restrict the agency of another.

Tension / Disagree

Networks and Commons require governance to mediate concerns.

Tension / Disagree

Entities should / should not be accountable?

Tension

Balance:
Creators should get compensated for their creations
↓
There should be front open access to all knowledge

# IDEA / BUILD

a Web app to point a decentralized name to a decentralized website / public / identity.

Standards for Addressing + Content Representation

Self-Sovereign Identity.

Control your public data, (with no central) etc...

End-to-end authenticated communication w/o central authorities.

# HOW?

Satoshi model Biz public for decent

Protection against "capture"

Distributed Naming | Sovereign Identity

Identity that doesn't break if public key ID breaks

# AGREE

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There should be free + open access to all [illegible]

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Self-sovereign Identity.

Control your profile, data, (with no control) etc.

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Sasta [illegible] Biz [illegible] for decent

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# GROUP 4

Agree

1) Content addressable
   vs. location based

2) HAVE FORKABLE
   Governance
   (like github?)

# GROUP 4

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   vs. location based

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# TABLE 2

- GOVERANCE — What mechanism?
- CENSORSHP — Harrassment vs. CHINA
- INTEROPERABILTY
  - Minimum Standards to get to BUILDING
- CRYTO? (Disagreement)

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A TABLE 2

# Group 1 Agreements

- Governance
- WEB APPS
- STANDARD for Addressing
- IDENTITY
- P-2-P AUTHENTICATION
- How To AVOID RE-CENTRALIZATION?
- HOW DO CONTENT CREATORS FEED THEIR FAMILIES?

TABLE 7

# Group 1 Agreements

- Governance
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# GROUP #5

1) Content accessibity
   but we are "stuck"
   - IDENTITIES
   - W

2) WANT LOTS of PROTOCOLS
   (Interop

3) SECURITY

4) PRIVACY

CONTENT CREATORS

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HOW DO CONTENT CREATORS
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#3 **

1) How To Resist Re-Centralized?

2) VERSION CONTROL (a memory?)

3) Disagree -

Risky content / PRIVACY vs. PORN

#3 **

1) How To Resist Re-Centralized?

2) VERSION CONTROL (a memory?)

3) Disagree -

Risky Content / PRIVACY vs. PORN

Van Jacobson

GOOGLE &
NAMED DATA NETWORKING PROJECT

Jim Nelson

INTERNET ARCHIVE | PETABOX
@_jimnelson_


#DWebSum

Happy
inspector

Zoara Wilcox
Cory Doctorow

4 9ers
Rock

161
803
399
4 9ers
Rock

Tamas Kocsis

ZERONET | FOUNDER PROGRAMMER
@hellozeronet

Fred Grosskopf

JOLOCOM

Tamas Kocsis
Hungarian
Web bu lder

Hello ZeroNet_

Hello ZeroNet

Hello ZeroNet

eated
ZeroMail

How does ZeroNet work
Part1 Part2
ZeroNet documents
Source code
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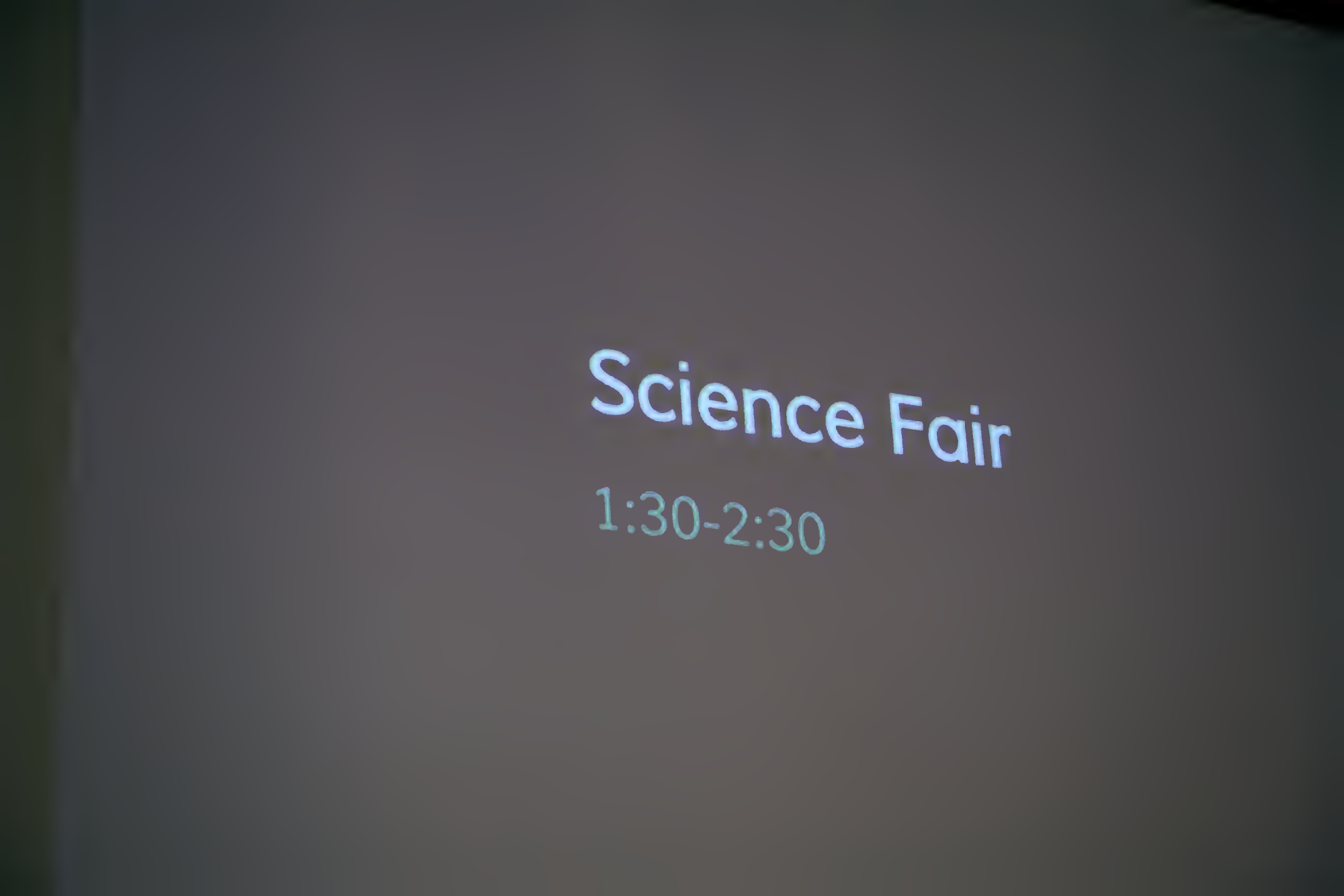
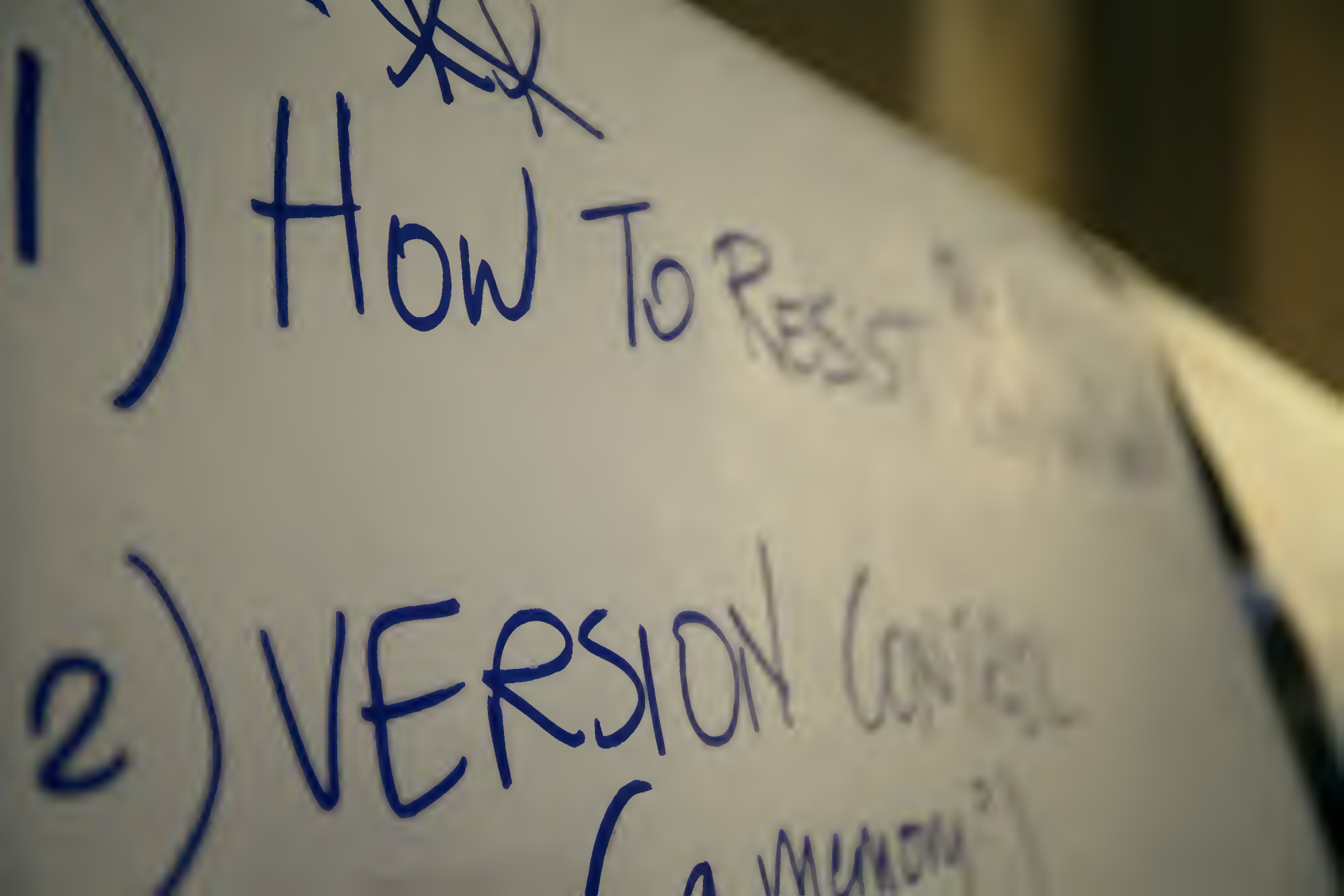

Science Fair
1:30-2:30

OVERANCE
- CENSORSHP
INTEROPERABILITY
Minimum Standards

CENSORSHIP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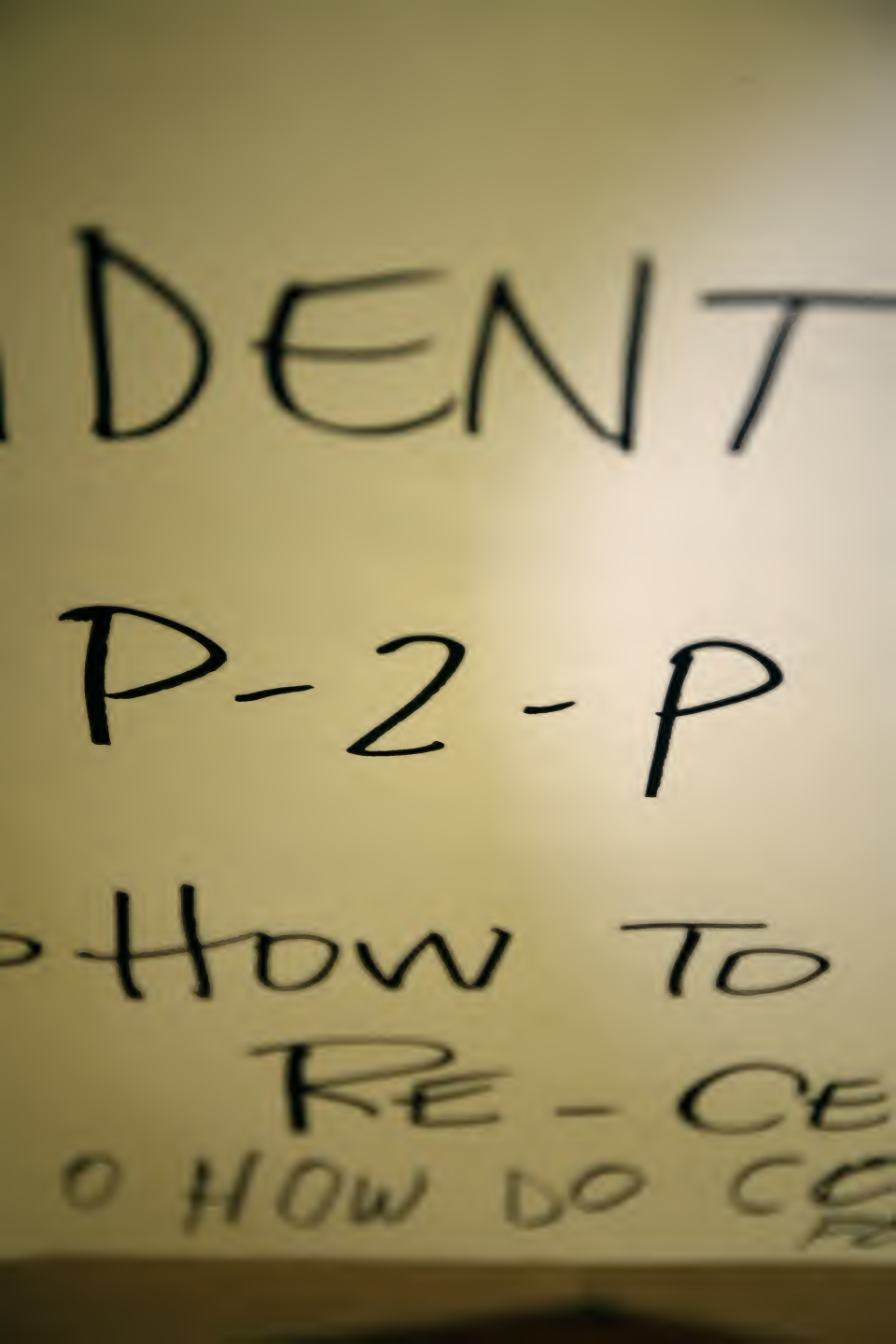
2) VERSION

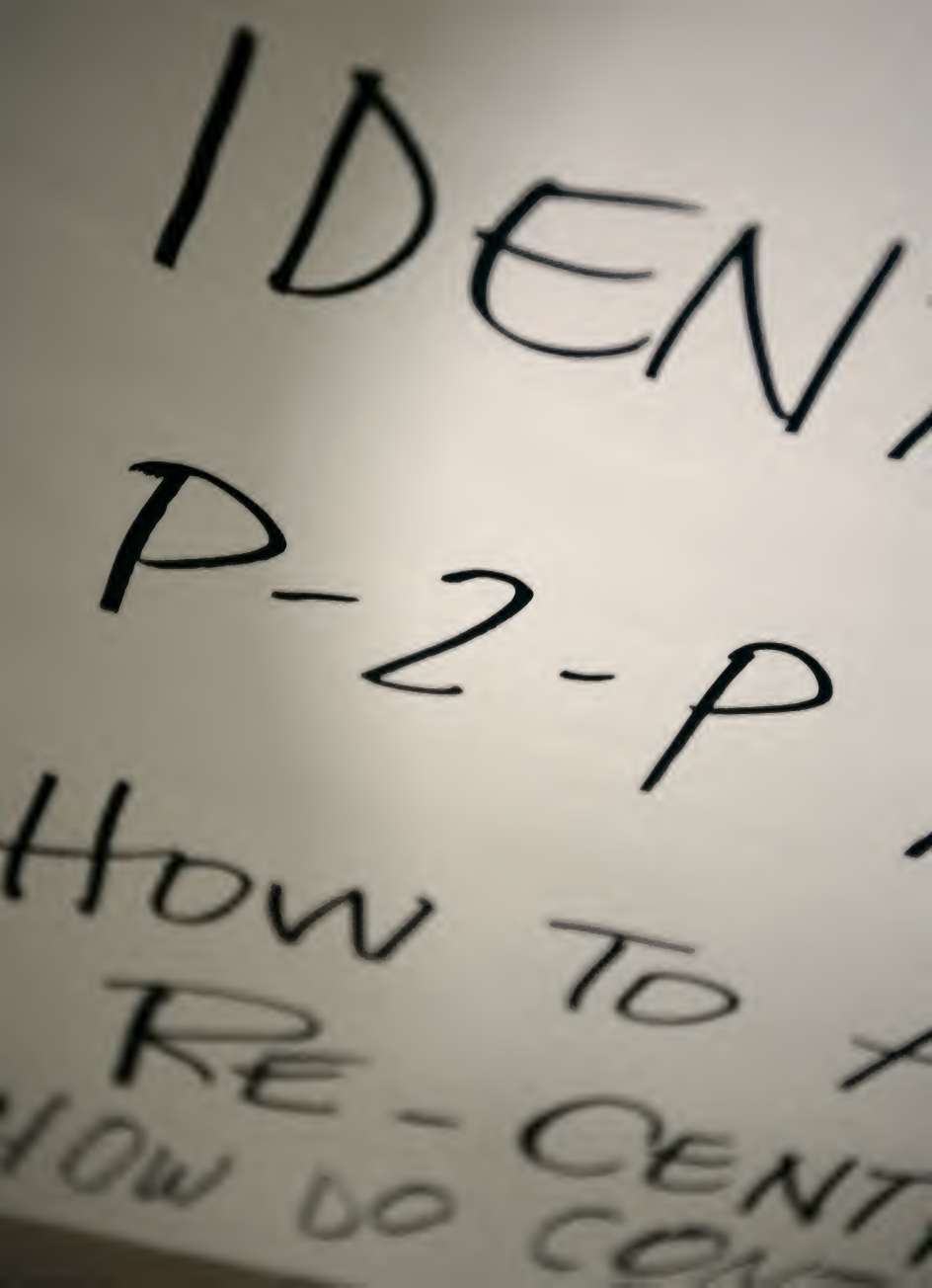
1) Disagree –

Risky Content / PRIVACY

vs.

PORN


DENT
P-2-P
HOW TO
RE-CE
HOW DO C


IDEN
P-2-P
HOW TO
RE-CENT
HOW DO

ALWAYS BE
YOURSELF
UNLESS YOU
CAN BE A
UNICORN

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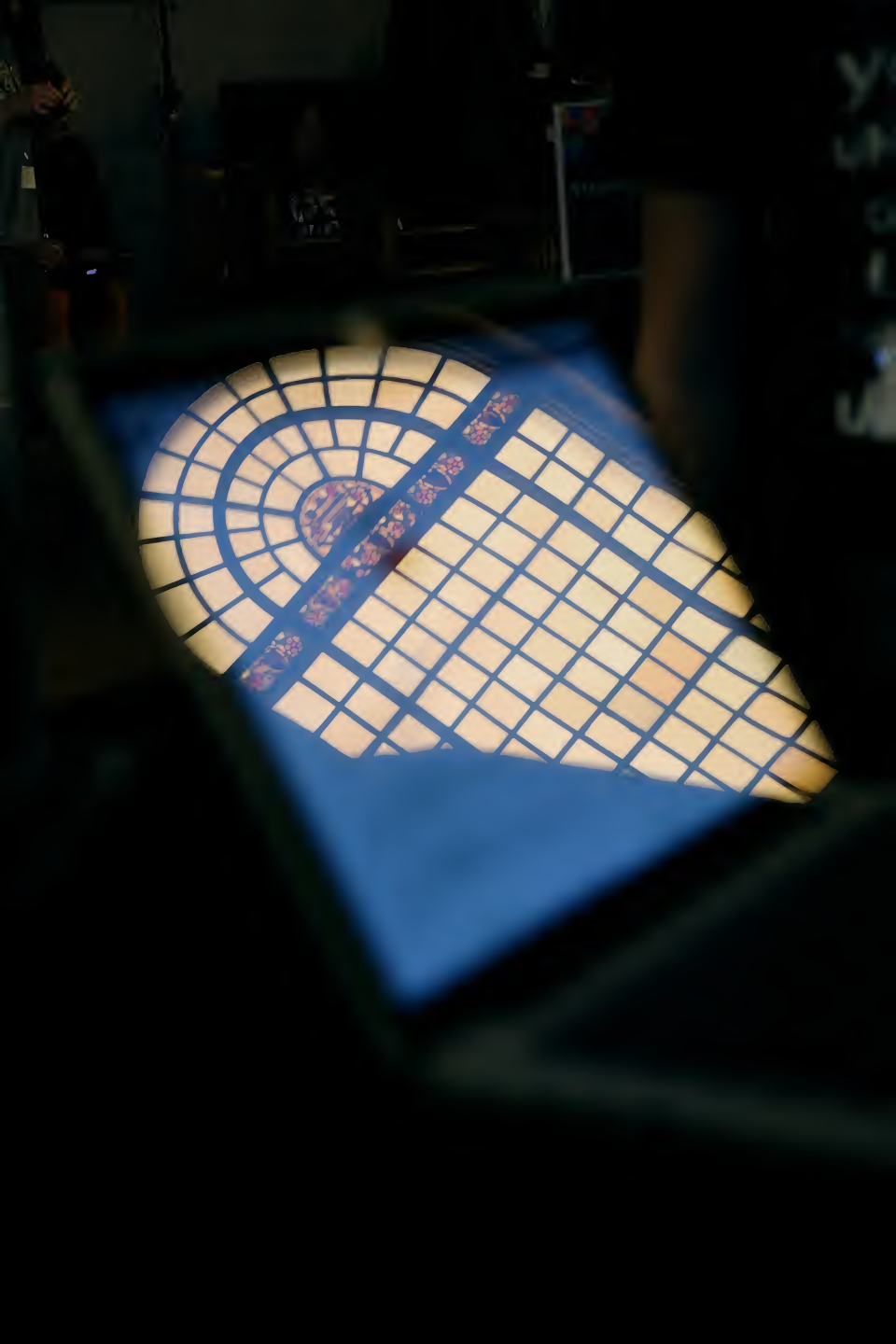

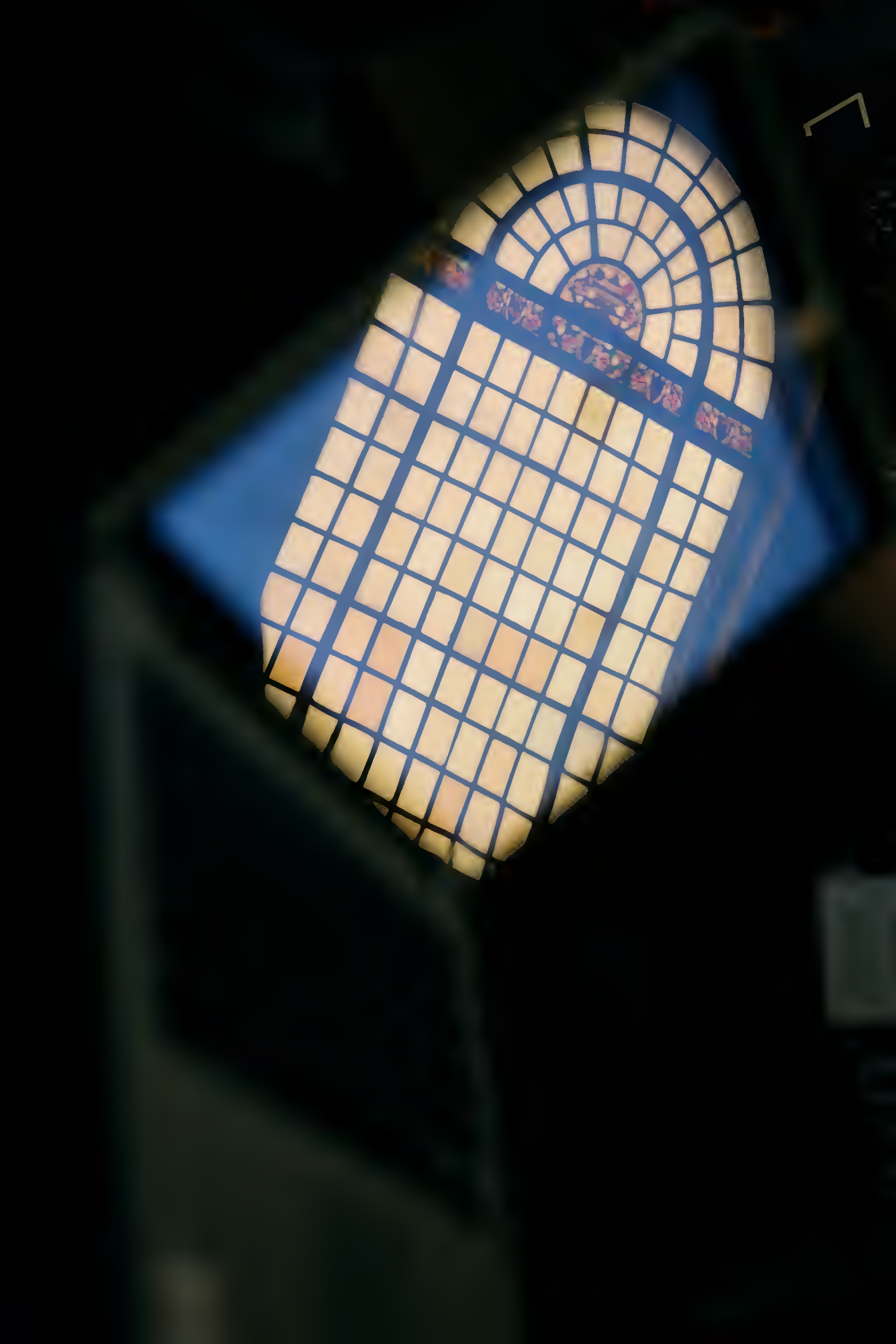

Science Fair
1:30-2:30

ERLIN

I Annotate 16
BERLIN

I Annotate16
BERLIN
HYPOTHES.IS

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BERLIN
HYPOTHES.IS

TAHOE-LAFS
Z.CASH
MAGIC WORMHOLE
Zooko Wilcox and Brian Warner
magic-wormhole.io

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HYPERLEDGER

HYPE EDGER

at&t
NAMECOIN

NAMECOIN

NAMECOIN

LET'S ENCRYPT/ CERTBOT
Noah Swartz and Jeremy Gillula

LET'S ENCRYPT/ CERTBOT

SOLID
Nicola Greco

matx

EXIT

EXIT

EXIT

EXIT

EXIT

EXIT

EXIT

IPFS
IPFS
IPFS

IPFS
IPFS
IPFS

IPFS
IPFS
IPFS

SOLID

SOLID

SOLID

Brian
Warner

Brian
Warner

Brian
Warner

Brian
Warner

Brian
Warner

SESSION

CRYSTAL GEYSER

Berkman
INTERNET ARCHIVE

Not private (usually not encrypted)
Can be slow (resolving + updating)
Does not have explicit cache
How to get from here to there
- Namespace can be imported even w/ DNSSEC
- Scalability?
DNSSEC proofs (NSEC 3?)

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Post-it

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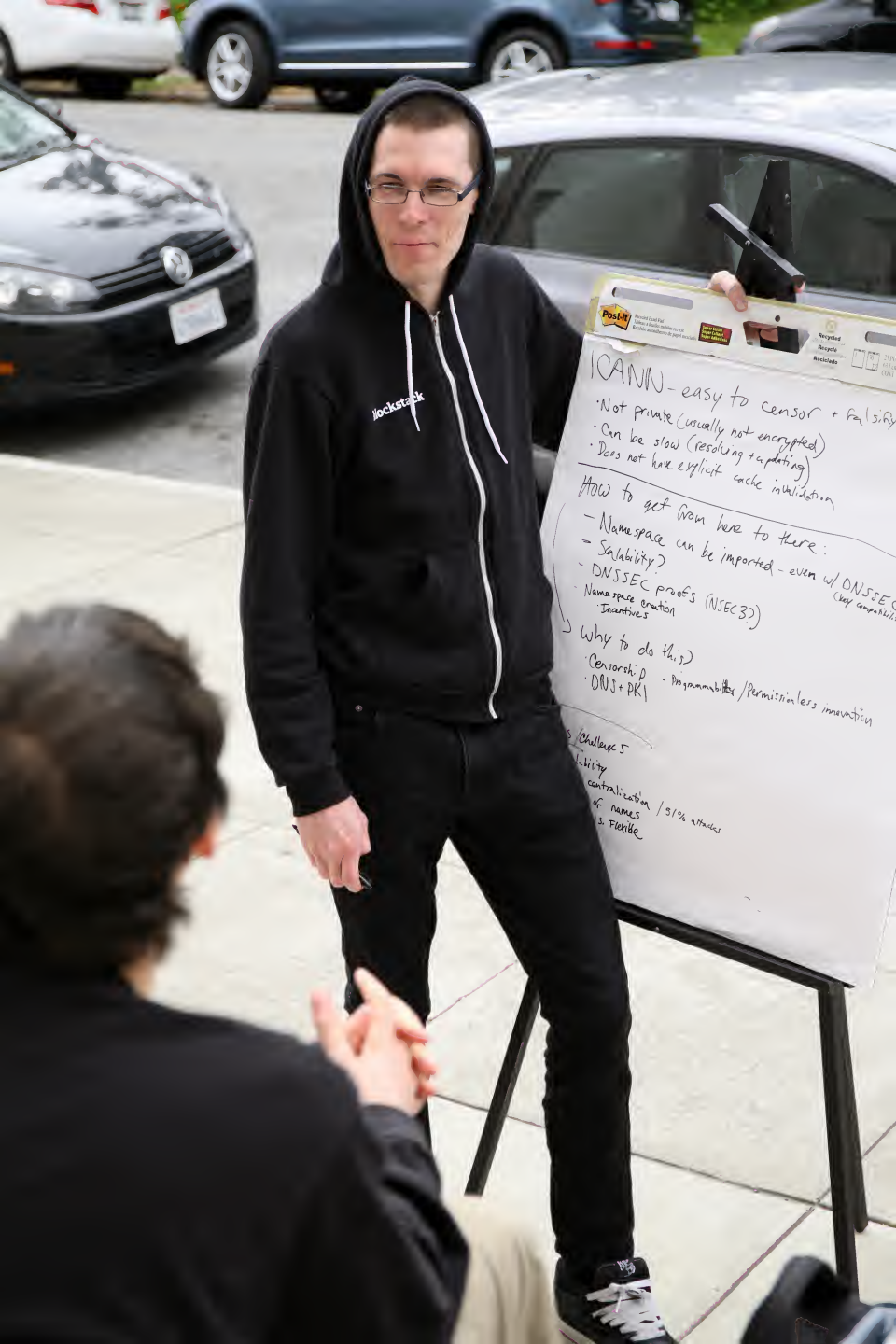
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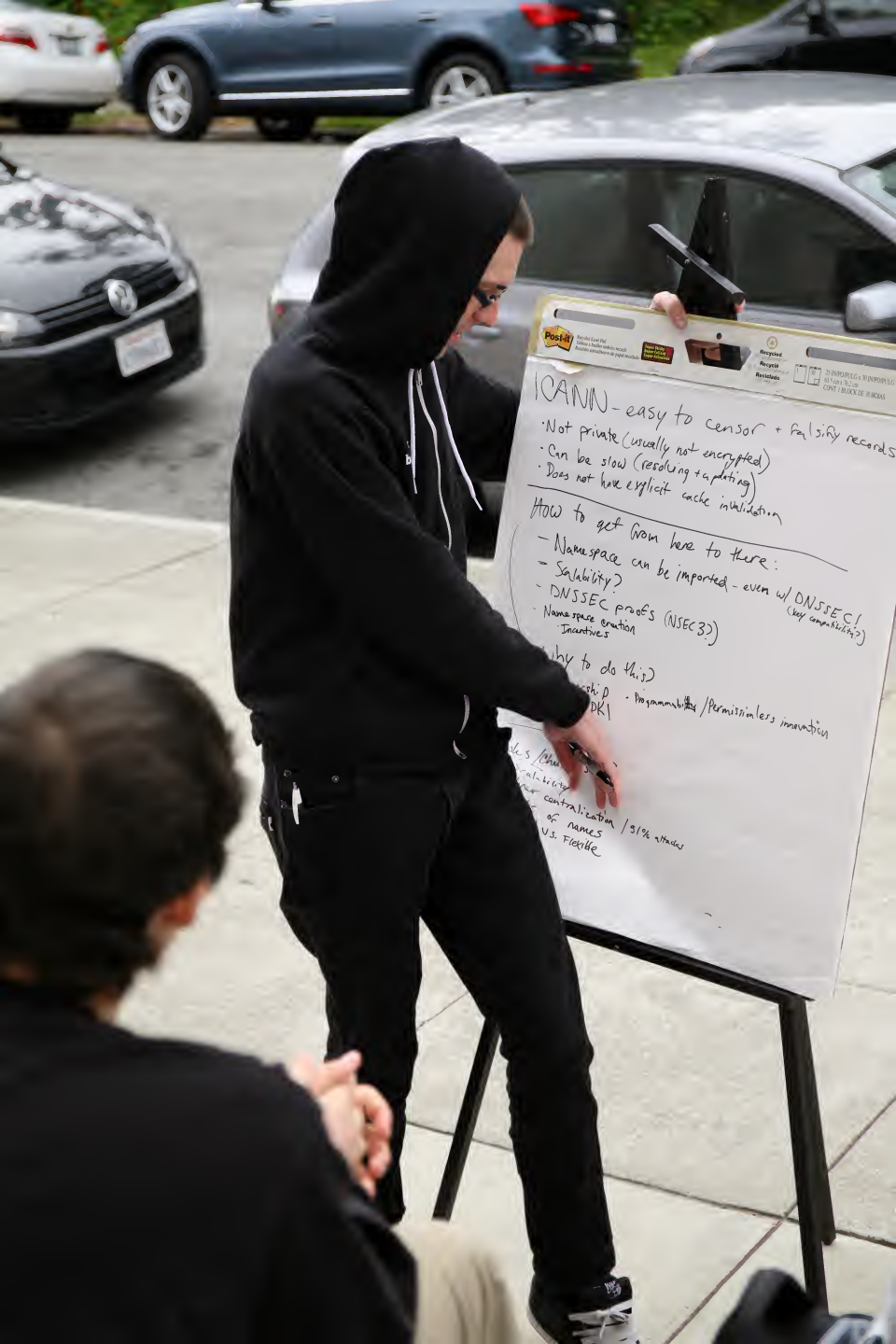
Namespace creation
· Incentives
Why to do this?
· Censorship
· DNS + PKI
· Programmability /Permissionless innovation
/Challenges
centralization / 51% attacks
of names
Flexible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Recycled
Recycle
Recyclable
25 INSPO/PULG x 30 INSPO/PULG
CONT / BLOCK DE 30 HOJAS
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(key compatibility?)
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Post-it
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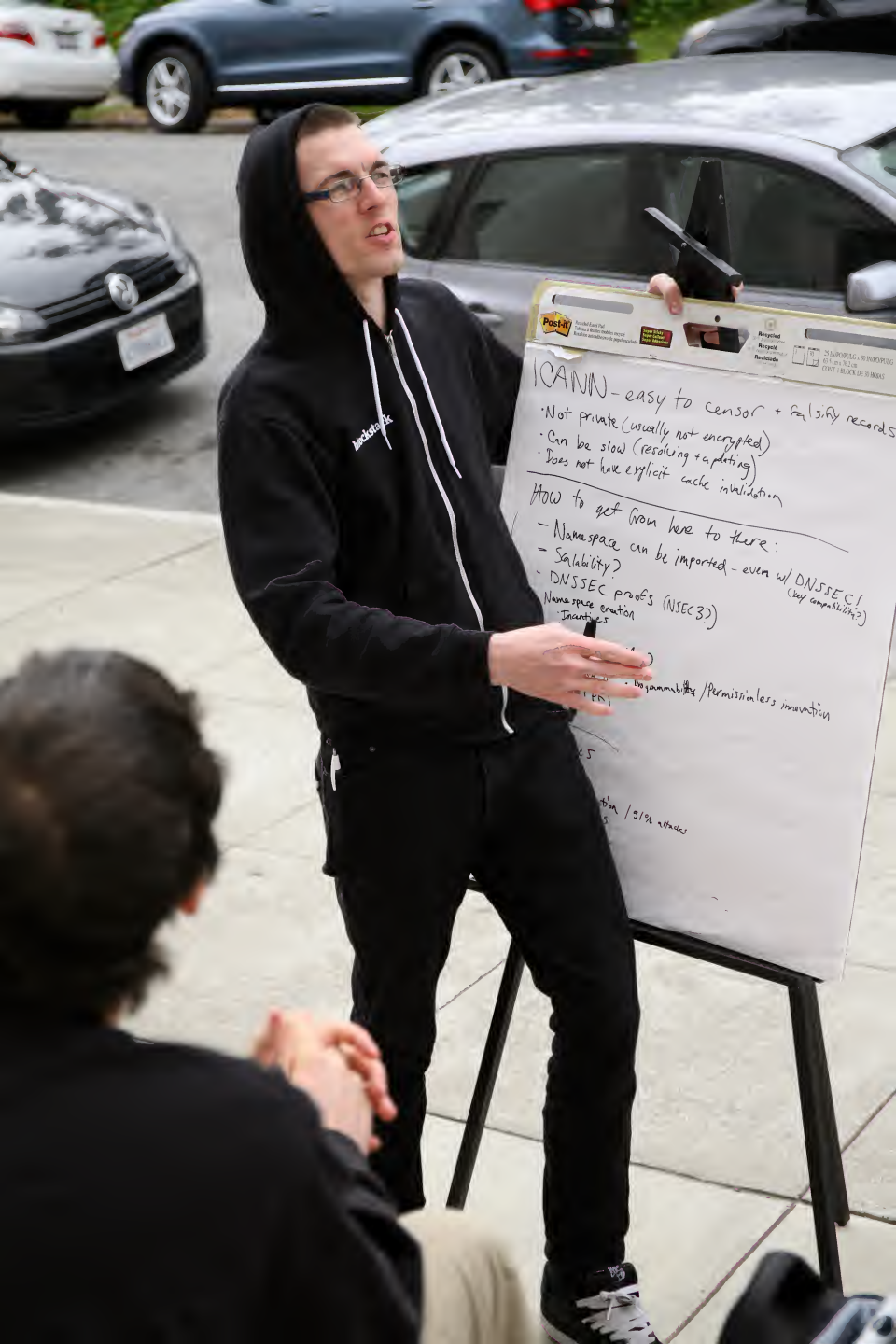
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united domains

united domains

united domains

EXISTING OSI
APPLICATION
TRANSPORT
INTERNET
LINK
Web
IPFS
Inter

Sharpie

Alexa